



DoD 5010.15.1-M
VOLUME X

STANDARDIZATION OF WORK MEASUREMENT

**Defense
Work
Measurement
Standard
Time
Data
Program**

**VOLUME X
UNIVERSAL**

(COMMON TO TWO OR MORE OCCUPATIONS)

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INSTALLATIONS AND LOGISTICS

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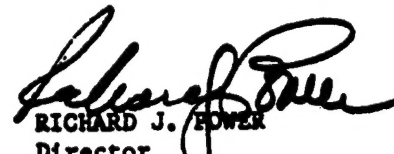
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FOREWORD

This volume of DoD 5010.15.1-M, "Standardization of Work Measurement", is one of a series published under the authority of DoD Directive 5010.31, Productivity Enhancement, Measurement, and Evaluation. It provides standard time data for Universal Occupations and includes guidelines for uniform application.

Maximum use of the guidelines and standard time data is mandatory at each Department of Defense activity where Labor Performance Standards are developed and applied.

All of the included standard time data have been reviewed and approved by a Joint Service/Agency Standard Time Data Group prior to publication.


RICHARD J. POWER
Director
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Support Office

DISTRIBUTION

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This DoD manual supersedes DoD 5010.15.1-M, Volume X, 9 Apr 74 and Change 1
*Denotes Changes

DEFENSE WORK MEASUREMENT STANDARD TIME
DATA PROGRAM (DWMSTDP)

STANDARD TIME DATA FOR
UNIVERSAL APPLICATION

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DEFENSE WORK MEASUREMENT STANDARD TIME
DATA PROGRAM (DWMSTDP)

UNIVERSAL

PART ONE - GUIDANCE

CHAPTER I - GENERAL INFORMATION

1.1 PURPOSE

This volume of Universal Standard Time Data is one of eleven volumes included in DWMSTDP. It is termed "Universal" because it provides a single DoD source for standard time data elements which can be used in the development of labor standards in several occupation categories.

1.2 SCOPE

This publication applies to all military services and defense agencies. The data contained herein will be used to the maximum extent possible in the development of labor performance standards.

1.3 APPLICATION

The Universal Standard Time Data contained in this volume are to be applied in accordance with the general instructions contained in the Basic Volume and the specific instructions contained in this volume.

1.4 SUBMISSION OF NEW ELEMENTS

All newly developed or existing Universal Standard Time Data elements not now included herein should be submitted with back-up motion pattern analysis to the Defense Industrial Resources Support Office (DIRSO), for review, coordination, and inclusion in the updating changes to this volume. The Basic Volume contains procedures for submitting these data elements.

*

CHAPTER II - CODING

2.1 GENERAL

- * 2.1.1 Information requirements applicable to DWMSTDP have been standardized. Applicable DoD Standard Data elements have been utilized and all other data elements have been proposed for data representation standardization action in accordance with the provisions of DoD Instruction 5000.15, "Data Elements and Codes Standardization Procedures" and DoD 5000.15-M.

2.1.2 The complete coding structure for a Defense Work Measurement Standard Time Data element is explained in the Basic Volume. Figure 1 highlights the Occupation Code, the Work Category Code, and the Work Sub-Category Code of a Universal element.

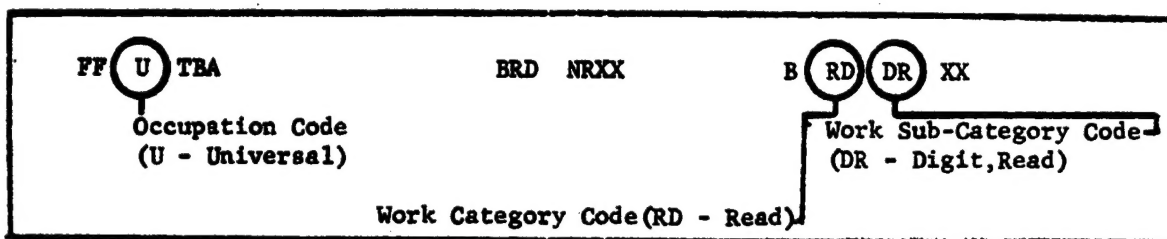


Figure 1 - DWMSTDP Coding Structure

2.2 TYPES OF CODES

2.2.1 Occupation Code

The Occupation Code "U" (for Universal) is used for standard time data elements in this volume. This code identifies general purpose elements such as get, place, read, write, which are found in a broad spectrum of occupations but are not specific to any.

2.2.2 Work Category Code

The two position Work Category Code encircled in Figure 1 further identifies the various types of work performed within the occupation groups. This classification category indicates the major action being performed or major equipment involved in the standard time data element. Figure 2 lists and defines the work categories used in coding Universal Standard Time Data.

2.2.3 Work Sub-Category Code

The two position Work Sub-Category Code encircled in Figure 1 is a sub-division of the Work Category Code and identifies the object, process, or condition associated with the action or equipment. This code is generally oriented to a noun-verb relationship, e.g., DR is the code for "Digit, Read" in the element description header line. However, where the element consists of general purpose data or if the noun-verb sequence causes a duplication of the code, the work sub-category sequence is modified, e.g., MIDSAXX-Stamp(Rubber),Apply, MIDSA01-Stencil,Apply. The noun-verb sequence will remain in the verbage of the element whenever possible.

UNIVERSAL WORK CATEGORY CODES		
<u>Work Category</u>	<u>Code</u>	<u>Definition</u>
Actuate	AC	Manual manipulation of an object for engaging disengaging, starting, or stopping a device. (Examples: crank, dial, set with knob, move lever.) The process of manipulating an object by cranking, turning, or moving through a fixed part. Putting something else in action by handling a switch or control.
Body Motion	BM	Gross foot, leg, and body movement (other than basic manual and eye motions. (Examples: leg motion, horizontal change, sit and stand, vertical change, walk.)
Clean	CL	The removal of foreign matter by chemical, mechanical, or manual process. (Examples: ultrasonic cleaning, abrasive cleaning, solvent, rubbing, wiping, sweeping.)
Clamp	CP	The actions required to accomplish the non-manual holding of object(s) with a clamp when required for repairing, modifying, manufacturing or assembly operations (Examples: "C", cleco, spring, hose, cable, conduit, etc.).
Disassembly/Assembly	DA	The action(s) required to remove, install or replace assemblies or components parts when the primary purpose is to place an object(s) or part(s) on or into another object or part so that they fit, connect or are secured to each other to form a unit. These actions do not include fabrication of parts or items. This category generally applies to special or higher level data. *
Dip	DP	Motions necessary to dip or immerse an object in liquid or paste and/or remove excess. (Examples: dip brush, cloth, stick, parts, dip hand, finger.)
Elemental	EL	Miscellaneous manual motions and factors not included in the get and body motion tables. (Examples: apply pressure, disengage, weight factors.)

Figure 2 - Major Categories of Work Used in Coding Universal Data

UNIVERSAL WORK CATEGORY CODES		
<u>Work Category</u>	<u>Code</u>	<u>Definitions</u>
Equipment - Transport Vehicle	EV	The operation or preparation for use of any powered over-the-road transport vehicle for transportation of personnel or cargo. (Examples: automobile, bus, pickup truck, truck trailer, and railcar.)
Gauge and Measure	GM	The procedure by which the size, amount, extent, or capacity of an item is determined. (Examples: bisect, gauge, square, weigh.)
Get	GT	The combination of reaching and grasping motions to gain control of one or more object(s) using the hand(s) or fingers. (Examples: easily grasped object in fixed location, - in a variable location.)
Identify	ID	The process and motions required to stamp, tab, label, or mark documents, cards, folders, or objects to provide for locating, recognizing, or comparing. The actions necessary to recognize, match, or compare similar characteristics.
Inspect and Test	IT	The procedure or action by which an item is subjected to comparisons or measurements to determine its qualities for use. (Examples: use of bore indicating gauge, use of feeler gauge, use of micrometers, eye times, check mandrel for run-out.)
Job Preparation	JP	The actions required to prepare an object(s), work place, or employee(s), or any combination of the three for ensuing work. NOTE: Excluded from this category are layout, packaging, and machine setup.
Layout	LO	Laying out straight lines or radii including drawing or scribing on any appropriate material. (Examples: measuring with scale or tape to locate points by intersecting lines, chalk line layout, surface preparation using layout dye.)
Lubricate	LU	The application of a lubricant using fingers or lubricating device. (Examples: brush, grease gun, oil can, tube.)

Figure 2 - Major Categories of Work Used in Coding Universal Data (Continued)

UNIVERSAL WORK CATEGORY CODES		
<u>Work Category</u>	<u>Code</u>	<u>Definitions</u>
Materials Handling - Devices	MH	The process of locating, relocating, positioning, and aligning mechanical devices such as conveyors, pallet jacks, hoists, carts, slings, etc., for the purpose of moving objects or moving the device out of the way.
Non-threaded Fastener	NF	The permanent or semi-permanent holding or locking of mating objects by other than threads or clamping actions.
Office General	OG	The processes and motions covering a large variety of actions commonly occurring in any office which have not been included in other categories. *
Object Handling	OH	The process of manually moving an object for the purpose of changing its location or alignment. The movement path may or may not be fixed.
Paint	PA	To cover a surface by applying and spreading a liquid or paste with a brush, spray gun, or roller. (Examples: paint, varnish, lacquer, shellac, wax.)
Paper Handling	PH	The processes and motions involved in the securing, movement, placement, and alignment of paper, cards, sheets, etc. *
Package	PK	Preparing an object for shipping or storing or removing object from shipping or storing condition.
Place	PL	The combination of motions to transport and place an object(s) using the hand(s) or fingers. (Examples: place approximate, place close - not symmetrical.)
Read	RD	Perception and comprehension of readily distinguishable words, letters, or numbers. (Examples: read individual word or number, read sequence of words.)
Surface Treatment	ST	The application of chemicals to an object when the predominant purpose is to change the composition of its surface.

Figure 2 - Major Categories of Work Used in Coding Universal Data (Continued)

UNIVERSAL WORK CATEGORY CODES		
<u>Work Category</u>	<u>Code</u>	<u>Definition</u>
Threaded Fastener	TF	Tightening or loosening a threaded object such as a bolt, nut screw, or hand-knob by hand. (Examples: finger turn-per thread, spin tighten or loosen - moderate pressure.)
Tool, Use, Hand Operated - Non-Powered	TL	The use or preparation for use of any non-powered implement, instrument or utensil held in the hand and used for cutting, hitting, digging, rubbing, etc. (Examples: knife, saw, hammer, shovel, rake, prybar, needle for sewing.)
Tool, Use, Hand Held - Powered	TP	The use or preparation for use of any <u>hand-held</u> tool which derives its primary power for operation from a source other than the operator or user. (Examples: electric portable saw, portable pneumatic wrench.)
Vising	VS	The action required to accomplish the non-manual holding of object(s) - (with a vise) while repaired, modifications, or manufacturing operations are being performed. (Examples: tighten or loosen vise, rotate vise, quick acting vise.)
Wire Handling	WH	Elements of work associated with the buildup, installation or repair of circuitry such as electrical, electronic or telephonic.
Write	WR	Writing or freehand printing numbers, letters, or punctuation of average readable quality and normal size or less than 1" height. (Examples: write letter - longhand, punctuate, write signs.)

Figure 2 - Major Categories of Work Used in Coding Universal Data (Continued)

CHAPTER III

UNIVERSAL DWMSTDP FUNDAMENTAL ELEMENTS

3.1 FORMATTED ELEMENTS

The elements are listed in tabular/chart formats for easier use of selected, highly repetitive, common standard time data elements. This type of format is intended for use by analysts/technicians trained in the application of standard time data who do not need to refer to the descriptive element. These same elements are also included in the element listing of the volume (Part Two, Section D), for use by other analysts/technicians not as familiar with applying standard time data to the development of labor standards.

DWMSTDP FUNDAMENTAL ELEMENTS

MULTI GET TGTGCKX			DISTANCE RANGE IN INCHES					
			F	1-3	3-9	9-15	15-21	21-27
DESCRIPTION		CASE CODE	A	B	C	D	E	F
EASY	Variable	A	8	13	22	30	38	47
	Loose	B	16	21	31	40	49	59
	Close	C	26	31	42	50	60	70
	Exact	D	53	58	68	77	86	97
	Other Hand	E	14	17	27	36	44	54
	Threaded Fastener	F	32	37	47	56	65	75
JUMBLED	Variable	G	15	22	30	38	47	55
	Loose	H	23	30	39	48	58	67
	Close	J	33	40	50	58	69	78
	Exact	K	60	67	76	85	95	105
	Other Hand	L	21	26	35	44	53	62
	Threaded Fastener	M	39	46	55	64	74	83
FIND JUMBLED	Variable	N	26	33	41	49	58	66
	Loose	P	34	41	50	59	69	78
	Close	R	44	51	61	69	80	89
	Exact	S	71	78	87	96	106	116
	Threaded Fastener	T	76	83	92	101	111	120

BASIC PLACE - TPLOPKX			POS Only	DISTANCE RANGE IN INCHES					
				F	1-3	3-9	9-15	15-21	21-27
DESCRIPTION		CASE CODE	A	B	C	D	E	F	G
APPROX	Location	A	-	2	5	9	13	17	21
	Location-w/press	B	-	13	15	20	24	28	31
LOOSE	Symmetrical	C	6	8	11	16	21	26	31
	Not Symmetrical	D	9	11	14	19	24	30	35
CLOSE	Symmetrical	E	16	18	21	27	31	37	42
	Not Symmetrical	F	20	22	25	30	35	40	45
EXACT	Symmetrical	G	43	45	48	53	58	63	69
	Not Symmetrical	H	47	49	52	57	62	67	72
OTHER HAND			J	6	8	9	14	19	23
START THREADED FASTENER	Visible	K	-	26	29	34	39	44	49
	Blind	L	-	60	63	68	73	78	83

MULTI PLACE - TPLOPKX			DISTANCE RANGE IN INCHES					
Get, Place to Use and Aside			F	1-3	3-9	9-15	15-21	21-27
		CASE CODE	A	B	C	D	E	F
EASY GET	Variable	A	10	18	31	43	55	68
	Loose	B	18	26	40	53	66	80
	Close	C	28	36	51	63	77	91
	Exact	D	55	63	77	90	103	118
JUMBLED GET	Variable	E	17	27	39	51	64	76
	Loose	F	25	35	48	61	75	88
	Close	G	35	45	59	71	86	99
	Exact	H	62	72	85	98	112	126

BASIC GET TGTGCKX			DISTANCE RANGE IN INCHES					
			F	1-3	3-9	9-15	15-21	21-27
DESCRIPTION		CASE CODE	A	B	C	D	E	F
CONTACT	Fixed	A	2	4	7	10	12	15
	Variable	B	2	4	9	13	17	22
EASY	Fixed	C	6	8	11	14	16	19
	Variable	D	6	8	13	17	21	26
	Location	E	17	19	--	--	--	--
	Additional Object	F	17	19	--	--	--	--
JUMBLED	One Hand	G	13	17	21	25	30	34
	Sign	H	24	28	32	36	41	45
	Additional Object	I	24	28	--	--	--	--
	Handful	J	33	35	39	44	48	52

BASIC ELEMENTAL			CODE	TMU
APPLY PRESSURE	Case 1		BEL-AP-01	16
	Case 2		BEL-AP-02	11
DISENGAGE	Loose		BEL-DE-01	4
	Close		BEL-DE-02	8
	Tight		BEL-DE-03	23
REGRASP			BEL-RG-01	6
EYE FOCUS			BEL-EF-01	7
EYE TRAVEL	Per Inch at 15" from the Eyes		BEL-ET-01	1
	Per Foot at 30" from the Eyes		BEL-ET-02	6
TURN WRAIST	Turn Only	Up to 90°	BEL-TW-01	4
		90° to 180°	BEL-TW-02	7
		Up to 90° w/pressure	BEL-TW-03	15
		90° to 180° w/pressure	BEL-TW-04	18
	Shift Grasp and Turn	Up to 90°	BEL-TS-01	12
		90° to 180°	BEL-TS-02	19
		Up to 90° w/pressure	BEL-TS-03	23
		90° to 180° w/ pressure	BEL-TS-04	29
EXTENSION OF DISTANCE FOR REACH/MOVE PER 10"			BEL-ED-01	7

TARULAR ELEMENTAL - TELNPKX			
EFFECTIVE NET WEIGHT (ENW)	CASE CODE	WEIGHT	FACTOR
		FIRST (Static & Dynamic)	Additional (Dynamic Only)
		A	B
2 1/2 - 10 Lbs.	A	3	1
10 - 20 Lbs.	B	8	2
20 - 30 Lbs.	C	12	3
30 - 40 Lbs.	D	17	4
40 - 50 Lbs.	E	22	6

20

TABULAR/BASIC ACTUATE				
Crank	CRANKING MOTIONS - TAC-CC-XX			
	Crank Diameter in inches			
	CASE	1-3	3-12	12-19
	CODE	A	B	C
	First Revolution	A	15	19
	Additional Revolution	B	10	14
	With Resistance	C	26	30
	MOVE MOTIONS - TAC-CN-XX			
	Crank Diameter in inches			
	CASE	1-3	3-9	9-15
Lever	MOVE ONLY - TAC-LM-XX			
	Distance Moved in inches	CASE	No Pressure	With Pressure
	1-3	A	4	14
	3-9	B	8	19
	9-15	C	13	24
	15-21	D	18	28
	SEAT TO MESH GEARS			
	UNLATCH OR LATCH, SQUEEZE TYPE			
	UNLATCH OR LATCH, NON-SQUEEZE TYPE			
	SEAT TO MESH GEARS			
Knob Dial	Set Loose, 1/4" to 1/16" Tolerance			
	Set Close, 1/16" to 1/64" Tolerance			
	Set Exact, 1/64" or less Tolerance			
	Engage on Splines			

TABULAR/BASIC ACTUATE				
Wheel	MOVE RIM - TAC-WM-XX			
	Distance Rim Moved in inches	CASE	NO PRESSURE	WITH PRESSURE
	1-3	A	4	14
	3-9	B	8	19
	9-15	C	13	24
	15-21	D	18	28
	SHIFT GRASP and Move Rim - TAC-WS-XX			
	Distance Rim Moved in inches	CASE	LIGHT RESISTANCE	HEAVY RESISTANCE
	1-3	A	12	16
	3-9	B	19	24
Switch	Position Dial or Pointer			
	Loose			
	Close			
	Exact			
	JOG OR BUMP - Final Setting			
	TUSH			
	No Pressure			
	To 1" Travel			
	1" - 2" Travel			
	With Pressure - to 2"			
Valve	TURN			
	Fingers			
	Wrist			
	No Pressure			
	With Pressure			
	Petcock			
	STEM			
	Final Tighten Revolution			
	Additional Revolution			
	Depress Pedal			

BASIC INSPECT & TEST				
DESCRIPTION				CODE
Caliper	Open or Close	24" Firm Joint	20"	BIT-CO-01
		8" Spring	4"	BIT-CO-02
		24" Firm Joint	within 1/16"	BIT-CS-01
		8" Spring	inside	BIT-CS-02
		24" Firm Joint	outside	BIT-CU-01
	First Dimension	8" Spring	inside	BIT-CU-02
		24" Firm Joint	outside	BIT-CU-03
		8" Spring	under 12"	BIT-CU-04
		24" Firm Joint	over 12"	BIT-CU-05
		8" Spring	inside or outside	BIT-CU-06
Dial Indicator	Set to Zero	Check per position	BIT-IS-01	49
		Check per position	BIT-DI-01	26
		Check Height, Flat Surface, 1st in.	BIT-BI-01	20
		Check Height, Flat Surface, Add in.	BIT-IU-01	14
		Check Mandrel Run Out, per Dia.	BIT-IU-02	10
	Check with Snap gauge, per position	Check with Snap gauge, per position	BIT-MR-01	95
		Check, per spot, position, or 1st in	BIT-SN-01	26
		Check, additional inch	BIT-TR-01	44
		Select 1st leaf, fan type	BIT-FE-03	89
		Select Add. leaf, fan type	BIT-FE-04	38
Feeler Gauge	Check, add. spot, position, or 1st in	Check, add. spot, position, or 1st in	BIT-FE-01	28
		Check, additional inch	BIT-FE-02	9
		Size Only	BIT-FG-01	31
		Go End	BIT-FG-02	27
		No Go End	BIT-FG-03	34
	Size & Depth	Size & Depth	BIT-GO-01	20
		Check outside diameter	BIT-GU-01	428
		Per Check	BIT-GU-01	428
		Flush	BIT-FP-01	8
		Pin Gauge	BIT-FP-01	8
Eye	Travel, point to point	Less than 1"	BIT-ET-01	8
		1"-3"	BIT-ET-02	9
		3"-9"	BIT-ET-03	13
		9"-15"	BIT-ET-04	19
		15"-21"	BIT-ET-05	25
		21"-27"	BIT-ET-06	27
	Multi - Object Handling	Get from shirt pocket	MOH-OG-01	65
		Place in shirt pocket	MOH-OP-01	73
		Pick up and set down	MOH-PO-01	155
		35-45 lbs	MOH-PO-02	176
		45-55 lbs	MOH-PO-03	186
Object	Pick up and set down	55-65 lbs	MOH-PO-04	255
		65-75 lbs	MOH-PO-05	268
		Pick up and set down	MOH-PO-01	155
		35-45 lbs	MOH-PO-02	176
		45-55 lbs	MOH-PO-03	186
	Multi - Object Handling	Get from shirt pocket	MOH-OG-01	65
		Place in shirt pocket	MOH-OP-01	73
		Pick up and set down	MOH-PO-01	155
		35-45 lbs	MOH-PO-02	176
		45-55 lbs	MOH-PO-03	186

DWMSTDY FUNDAMENTAL ELEMENTS

BASIC THREADED FASTENER			CODE	TH
Finger Turn	Move Only	to 1 1/2"	BTY-FH-01	3
		1 1/2" - 2 1/2"	BTY-FH-02	4
		2 1/2" - 3 1/2"	BTY-FH-03	5
	Shift Grasp & Move	TO 1 1/2"	BTY-FS-01	10
		1 1/2" - 2 1/2"	BTY-FS-02	12
		2 1/2" - 3 1/2"	BTY-FS-03	14
	Per Thread	TO 1/4"	BTY-FT-01	4
		1/4" - 3/4"	BTY-FT-02	11
		3/4" - 1 3/4"	BTY-FT-03	23
Start Threaded Fastener	Visible	1 3/4" - 3 1/4"	BTY-FT-04	37
		less than 1"	BTY-SV-01	26
		1" - 3"	BTY-SV-02	29
		3" - 9"	BTY-SV-06	34
		9" - 15"	BTY-SV-12	39
		15" - 21"	BTY-SV-18	44
Move to Position	Blind	21" - 27"	BTY-SV-24	49
		less than 1"	BTY-SB-01	60
		1" - 3"	BTY-SB-02	63
		3" - 9"	BTY-SB-06	68
		9" - 15"	BTY-SB-12	73
		15" - 21"	BTY-SB-18	78
		21" - 27"	BTY-SB-24	83
Spin		BTY-SS-01	10	
Loosen or Tighten		BTY-TN-01	18	
Washer, Place on		BTY-WP-01	26	
Screw or bolt		BTY-WP-02	35	
Wrist Turn	Turn Only	90° TURN	BTY-WT-01	5
		120° TURN	BTY-WT-02	7
		180° TURN	BTY-WT-03	9
	Shift Grasp & Turn	90° TURN	BTY-WS-01	15
		120° TURN	BTY-WS-02	18
		180° TURN	BTY-WS-03	23
	Per Revolution	90° TURN	BTY-WR-01	59
		120° TURN	BTY-WR-02	53
		180° TURN	BTY-WR-03	46

MULTI NON-THREADED FASTENER			CODE	THU
Lock (Latch)	Close and Lock	Padlock key attach & lock	MNF-LC-01	65
		Padlock comb attach & lock	MNF-LC-02	159
		Mount, 0°-90° key turn	MNF-LC-03	49
		Mount, 90°-360° key turn	MNF-LC-04	77
		Mount, Comb.	MNF-LC-05	109
	Open and Move Aside	Suitcase Type Latch	MNF-LC-06	91
		Hook & Eye Type Latch	MNF-LC-07	46
		Padlock key	MNF-LC-01	163
		Padlock Comb.	MNF-LC-02	388
		Mount, 0°-90° key turn	MNF-LC-03	96
Staple	Install	W/Plier Grip Stapler	MNF-SI-01	51
		3/8", 1/2", Plier Type Remover	MNF-SR-01	86
	Remove	W/Plier Grip Stapler	MNF-SI-01	51
		3/8", 1/2", Plier Type Remover	MNF-SR-01	86
		W/Plier Grip Stapler	MNF-SI-01	51
		3/8", 1/2", Plier Type Remover	MNF-SR-01	86
		W/Plier Grip Stapler	MNF-SI-01	51
		3/8", 1/2", Plier Type Remover	MNF-SR-01	86
		W/Plier Grip Stapler	MNF-SI-01	51
		3/8", 1/2", Plier Type Remover	MNF-SR-01	86

TABULAR NON-THREADED FASTENER - THFWXX			
Nail, Set and Drive	Size of Nail		
	5-7-8 10-12-16		
First Nail	CASE CODE	A	B
	A	422	529
Each Additional Nail	CASE CODE	A	B
	B	182	285

MULTI THREADED FASTENER			CODE	THU
Get (Easy) and Start (Visible)	Move Only	To 1"	MTP-FG-01	32
		1" to 3"	MTP-FG-02	37
		3" - 9"	MTP-FG-06	47
		9" - 15"	MTP-FG-12	56
		15" - 21"	MTP-FG-18	65
		21" - 27"	MTP-FG-24	75
		To 1"	MTP-FP-01	39
		1" - 3"	MTP-FP-02	46
		3" - 9"	MTP-FP-06	55
		9" - 15"	MTP-FP-12	64
Get (Jumbled) and Start (Visible)	Move Only	15" - 21"	MTP-FP-18	74
		21" - 27"	MTP-FP-24	83
		To 1"	MTP-FS-01	76
		1" - 3"	MTP-FS-02	83
		3" - 9"	MTP-FS-06	92
		9" - 15"	MTP-FS-12	101
		15" - 21"	MTP-FS-18	111
		21" - 27"	MTP-FS-24	120
		To 1"	MTP-FS-01	76
		1" - 3"	MTP-FS-02	83
Get (Jumbled) and Start (Visible)	Move Only	3" - 9"	MTP-FS-06	92
		9" - 15"	MTP-FS-12	101
		15" - 21"	MTP-FS-18	111
		21" - 27"	MTP-FS-24	120
		To 1"	MTP-FS-01	76
		1" - 3"	MTP-FS-02	83
		3" - 9"	MTP-FS-06	92
		9" - 15"	MTP-FS-12	101
		15" - 21"	MTP-FS-18	111
		21" - 27"	MTP-FS-24	120

MULTI VISING			CODE	THU
Vise	Quick Acting	Loosen	MVS-CA-01	24
		Tighten	MVS-CA-02	35
		Rotate	MVS-RV-01	81
	Open or Close	to 45°	MVS-RV-02	89
		45° - 135°	MVS-RV-03	91
		Sm. to 9" HDL. DIA.	MVS-TL-01	31
	Close	Med. 9"-15" HDL. DIA.	MVS-TL-02	39
		Lg. 15"-21" HDL. DIA.	MVS-TL-03	47
		Sm. to 9" HDL. DIA.	MVS-TL-01	31
		Med. 9"-15" HDL. DIA.	MVS-TL-02	39

MULTI CLAMPING			CODE	THU
Clamp	C-Type	Install and Remove	MCP-CI-01	322
		Tighten or Loosen	MCP-CI-01	75
		Remove	MCP-CL-01	55
	Cleco	Install	MCP-CL-06	82
		Up to 15"	MCP-CL-18	92
		15" to 27"	MCP-CL-18	92
	Spring	Install/Remove	MCP-SI-01	20
		Sm. to 1" move	MCP-SI-01	20
		Lg. 1"-3" move	MCP-SI-01	26
	Jaw, Parallel	Screwdriver Handle	MCP-PJ-01	112
		Knurled Knob	MCP-PJ-02	50

DWMSTDP FUNDAMENTAL ELEMENTS

BASIC TOOL USE				CODE	TMU	
Pry Bar	Object Move	Less than 1"		BTL-BP-01	20	
		1" - 3"		BTL-BP-02	25	
		3" - 9"		BTL-BP-06	34	
		9" - 15"		BTL-BP-12	43	
Chisel (Cold)	First or Single Blow		BTL-CU-01	72		
	Additional Blow		BTL-CU-02	17		
File or Hack Saw	Per Stroke		BTL-FU-01	37		
Hammer (Light, 2 1/2 lbs.)	Strike One Blow (up and down stroke)	1" - 3" Stroke		BTL-HL-02	8	
		3" - 9" Stroke		BTL-HL-06	17	
		9" - 15" Stroke		BTL-HL-12	26	
		15" - 21" Stroke		BTL-HL-18	35	
		21" - 27" Stroke		BTL-HL-24	43	
Hammer (Medium, 2 1/2 - 7 1/2 lbs.)		1" - 3" Stroke		BTL-HM-02	9	
		3" - 9" Stroke		BTL-HM-06	18	
		9" - 15" Stroke		BTL-HM-12	28	
		15" - 21" Stroke		BTL-HM-18	37	
		21" - 27" Stroke		BTL-HM-24	46	
Hatchet	First or Single Blow		BTL-HU-01	42		
	Additional Blow		BTL-HU-02	32		
Knife	Per Stroke	To 1" Stroke		BTL-KU-01	16	
		1" - 3" Stroke		BTL-KU-02	20	
		3" - 9" Stroke		BTL-KU-06	28	
Pliers (Conventional)	Lt. Resist. - to 30 lbs.		BTL-PC-01	15		
	Hvy. Resist. - 30 - 45 lbs		BTL-PC-02	20		
Pliers (Vise Grip)	Close on object and open to remove		BTL-PC-03	65		
Screw Driver	Conventional	Engage & Disengage		BTL-SC-01	23	
		Finger Turn	Per Move To 3/4" DIA	BTL-SC-02	8	
			Per Move 3/4"-2" DIA	BTL-SC-03	12	
			Per Move To 3/4" DIA	BTL-SC-04	21	
			Per Thread 3/4"-2" DIA	BTL-SC-05	31	
	Ratchet	Wrist Turn	Per Move	BTL-SC-06	18	
		Wrist Turn	Per Thread	BTL-SC-07	53	
			Move Turn	Per Move	BTL-SR-01	9
				Per Thread	BTL-SR-02	23
			Wrist Turn	Per Turn	BTL-SR-03	14
Per Thread	BTL-SR-04	41				
Final Tighten/Initial Loosen		BTL-SU-01	31			
Scissors/Shears	Small	to 2" cut, One Hand, to 2 1/2 lbs res.		BTL-SS-01	11	
	Large	2-4" cut, two Hands to 5 lbs res.		BTL-SS-02	13	
To Tap or Die	Wrist Turn	Cut	Per Thread	BTL-TD-01	67	
		Remove	Per Thread	BTL-TD-02	46	
	Move Turn	to 6" handle	Cut	Per Thread	BTL-TD-03	102
		6"-10" handle	Remove	Per Thread	BTL-TD-04	63
			Cut	Per Thread	BTL-TD-05	140
			Remove	Per Thread	BTL-TD-06	85
T-Handle	Engage and Disengage		BTL-WH-01	26		
	Spin - Per Hand Sequence		BTL-WH-11	15		
	Per Thread	Wrist turn	BTL-WH-12	46		
		Move turn	BTL-WH-13	68		
Ratchet & Socket - Engage/Disengage				BTL-WR-01	26	

BASIC TOOL USE				CODE	TMU
Screw Driver	Engage/Disengage Socket			MTL-WS-01	31
		Turn One Thread 3-6" DIA		MTL-WS-02	12
Wrench Torque	Set Torque	Dial Type		MTL-WT-01	37
		Snap Type		MTL-WT-02	98
	Final Tighten	Snap Type	7"-12" HDL, 5/16" THRD.	MTL-WT-51	39
		Snap Type	12"-16" HDL, 5/16"-1/2" THRD.	MTL-WT-52	45
		Dial Type	7"-12" HDL, 5/16" THRD.	MTL-WT-61	55
		Dial Type	12"-16" HDL, 5/16"-1/2" THRD.	MTL-WT-62	61

MULTI TOOL USE				CODE	TMU
Die or Tap	Assemble Tap in Chuck			MTL-DA-01	98
	Disassemble Tap from Chuck			MTL-DA-02	77
	Assemble Tap in Handle			MTL-DA-03	139
	Disassemble Tap from Handle			MTL-DA-04	110
	Assemble Die in Handle			MTL-DA-05	150
	Disassemble Die from Handle			MTL-DA-06	122

TABULAR TOOL USE - SCREWDRIVER - TTLSPX						
		Length of Stroke (Inches)				
		2	3	4	5	6
CASE CODE	A	B	C	D	E	
Per Stroke	A	10	12	15	17	19
Per Thread	B	10	8	7	7	6

NOTE: Applies to resistance on the down stroke of up to 7 1/2 lbs. K. N. W.

TABULAR TOOL USE - WRENCH - TTLWXX					
Thread Diameter (Inches) up to 5/8"		Degrees Turned Per Move			
		30°	60°	120°	180°
CASE CODE	A	B	C	D	
First Move	A	30	33	37	41
Additional Move	B	34	40	48	56
First Thread	C	404	233	133	97
Additional Thread	D	404	240	144	112
5/8" - 1 1/8"					
First Move	E	33	38	46	54
Additional Move	F	40	50	68	86
First Thread	G	473	288	182	139
Additional Thread	H	480	300	204	170

TABULAR TOOL USE - RATCHET - TTLWRXX					
Ratchet Size, Type Motion - Move Motion		Degrees Turned Per Move			
		30°	60°	120°	180°
CASE CODE	A	B	C	D	
1/4" - 3/8" drive	A	10	15	21	29
Per Move	B	118	88	63	58
Per Thread	C	12	18	30	42
1/2" Drive	D	146	107	91	83
Per Move	E	6	8	14	19
Per Thread	F	67	49	41	38

DWMSTDP FUNDAMENTAL ELEMENTS

MULTI CLEAN		CODE	TMU
Hands, Both	Wipe with Cloth/Paper Towel	MCL-HW-01	271
Hand, One		MCL-HW-02	160

TABULAR CLEAN - TCLOUXX							
Object, Clean Per		Distance Per 1-Way Stroke (Inches)					
Stroke to 2 1/2 lbs. Resist.		to 1"	1"-3"	3"-9"	9"-15"	15"-21"	21"-27"
CASE CODE		A	B	C	D	E	F
W/O Pressure	A	4	9	18	27	34	41
W Pressure	B	15	20	28	37	45	52
2 1/2 - 10 lbs. Resistance							
One Way							
W/O Pressure	C	6	12	21	30	37	45
W Pressure	D	15	20	29	38	46	53
Both Ways	E	8	14	23	33	40	48
10 - 20 lbs Resistance							
One Way							
W/O Pressure	F	10	16	25	35	43	50
W Pressure	G	15	21	30	40	48	55
Both Ways	H	16	22	32	43	51	59

BASIC DIP		CODE	TMU
Cloth	Wring to Remove Excess Fluid	BDP-CW-01	38
Hand	Immerse, Remove, Shake	BDP-HI-01	40
Part (Without Cavities)	Immerse and Shake	Large, 10-30 lbs.	BDP-PI-01 73
		Medium, 5-10 lbs.	BDP-PI-02 48
		Small, to 5 lbs.	BDP-PI-03 32
		Very Small	BDP-PI-04 23

TABULAR DIP TDPOUXX				
Object, Liquid or Paste		Depth of Immersion (Inches)		
		to 1"	1" - 3"	3" - 9"
CASE CODE		A	B	C
Average Immersion	A	4	9	18
Careful Immersion	B	10	14	24
Wipe After Immersion	C	4	10	21

BASIC LUBRICATE			CODE	TIME
Brush, Cloth Finger or Stick	Linear	to 6"	BLU-BL-01	11
		6" - 12"	BLU-BL-02	21
	Spot	Per spot	BLU-BS-01	4
		Per spot with care	BLU-BS-02	15
Grease Gun	Apply Lube	Attach & Remove - Zerk Fitting	BLU-GA-01	148
		Button-Per Fitting	BLU-GB-01	34
		Lever-Per Stroke	BLU-GI-01	36
		Linear-Per Foot	BLU-OL-01	28
		Lever-Per Stroke	BLU-OS-01	18
Oil Can		Diaphragm-Per Stroke	BLU-OS-02	15
Tube		Area-Per Sq. In.	BLU-TA-01	26
		Spot-1/4" Sq.	BLU-TS-01	20

DEFENSE WORK MEASUREMENT STANDARD TIME DATA PROGRAM
(DWMSTDP)

PART TWO - UNIVERSAL STANDARD TIME DATA

SECTION I - INDEXES

*

This provides two indexes as follows:

The DWMSTDP Element Index which is sequenced according to the DWMSTDP Element Code.

The Noun/Verb Index which is an alphabetical listing of the "title" line of the operation/element description.

NOTE: Indexes included in changes to this volume will be inserted in this section.

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
ELEMENT INDEX

OCCUP- ATION	QUALITY	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
U	MAA	BACCE01	31	CRANK, ENGAGE ON SPLINES	1
U	MAW	BACFT01	36	FLASHLIGHT, TURN ON AND OFF	
U	MAA	BACKDXX	VARIABLE	KNOB, DIAL SET OR ALIGN POINTER WITH TURN UP TO 180 DEGREES	
U	MAA	BACLS01	16	LEVER, SEAT TO MESH GEARS	
U	MAA	BACLU01	13	LEVER (NON-SQUEEZE), UNLATCH OR LATCH	
U	MAA	BACLU02	19	LEVER, UNLATCH TO DISENGAGE, SQUEEZE TYPE LATCH	
U	MAD	BACPD01	33	PEDAL, DEPRESS	
U	MAA	BACSPXX	VARIABLE	SWITCH, PUSH TO TURN ON OR OFF	
U	MAA	BACSTXX	VARIABLE	SWITCH, TURN	2
U	MAA	BACVP01	22	VALVE, PETCOCK, OPEN OR CLOSE	
U	MAA	BACVSXX	VARIABLE	VALVE (STEM TYPE), OPEN OR CLOSE WITH ONE HAND	
U	MAA	BACWJ01	18	WHEEL, JOG OR BUMP FOR FINAL SETTING	
U	MAA	BACWPXX	VARIABLE	WHEEL, POSITION TO SET DIAL OR POINTER	
U	MAF	MACBD01	45	BUTTON, DEPRESS (DOORBELL OR SIMILAR)	
U	MAF	MACCO01	70	CONTROL (FOOT), OPERATE WITH PRESSURE	
U	MAA	MACCSXX	VARIABLE	CONTROLS, SET	3
U	MAA	MACKU01	74	KNOB (CONTROL), UNLOCK AND LOCK	
U	MAF	MACLE01	37	LEVER, ENGAGE, OR DISENGAGE	
U	MAF	MACLT01	102	LEVER, TURN ON AND OFF (AIR VALVE OR SIMILAR)	
U	MAA	MACMS01	104	MACHINE, START AND STOP WITH PUSH BUTTON OR ROTARY SWITCH	
U	MAF	MACMS02	34	MACHINE, START OR STOP (PUSH TYPE SWITCH)	
U	MAL	MACSOXX	VARIABLE	SWITCHES, OPERATE, CONTROL PANEL	
U	MAF	MACTS01	22	TOOL, START (DRILL OR SIMILAR WITH TRIGGER SWITCH)	4
U	MAA	MACVCXX	VARIABLE	VALVE, OPEN AND CLOSE	
U	MAF	MACVOXX	VARIABLE	VALVE, OPEN OR CLOSE	
U	MAF	MACVO03	36	VALVE, OPEN OR CLOSE	
U	MAA	TACCCXX	TABLE	CRANK, WITH CRANKING MOTIONS	
U	MAA	TACCMXX	TABLE	CRANK, MOVE MOTIONS	5
U	MAW	TACCTXX	TABLE	CRANK, TURN WITH CRANKING MOTION AND ALIGN	
U	MAA	TACLMXX	TABLE	LEVER, MOVE	
U	MAA	TACMMXX	TABLE	WHEEL, MOVE RIM	
U	MAA	TACMSXX	TABLE	WHEEL, SHIFT GRASP AND TURN 1/3 REVOLUTION	6
U	MAW	BBMBM01	83	BODY, MOVE SIDEWAYS TO NEW LOCATION WHILE SEATED	
U	MAA	BBMFMD1	9	FOOT, MOVE SIDEWAYS OR VERTICALLY, NO PRESSURE APPLIED	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
ELEMENT INDEX

OCCUP- ATION	QUALITY	DWMSTD ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
U	MAA	HBMHCO1	19	HORIZONTAL CHANGE(SIDE STEP OR TURN BODY)	6
U	MAA	JBMLMAX	VARIABLE	LEG, MOVE, TO 21 INCHES	
U	MAA	BBMSSXX	VARIABLE	SIT AND STAND	
U	MAA	HBMVCXX	VARIABLE	VERTICAL CHANGE	
U	MAA	HBMWOO1	17	WALK, UNOBSTRUCTED, PER PACE	7
U	MAA	BBMWUXX	VARIABLE	WALK, UNOBSTRUCTED	
U	EUL	MBMABO1	526	AIRCRAFT, BOARD AND DISMOUNT	
U	MAF	MBMCLXX	VARIABLE	LADDER(EXTENSION), CLIMB AND DESCEND	
U	MAA	MBMLCXX	VARIABLE	LADDER(VERTICAL), CLIMB UP AND DOWN ONE RUNG OR STEP	8
U	EUL	MBMTBO1	701	TRUCK(PICKUP), BOARD AND DISMOUNT BACK END	
U	MAA	TBMPCTX	TABLE	POSITION, CHANGE	
U	MAW	BCLDCO1	61	DIAL, CLEAN WITH CLOTH	
U	MAW	BCLDMO1	45	DIPSTICK, WIPE WITH CLOTH	9
U	MAF	BCLPCXX	VARIABLE	PART, CLEAN WITH RAG	
U	MAF	BCLSCXX		SURFACE, CLEAN WITH SCRAPER	
U	MAF	BCLSCO5	476	SURFACE, CLEAN WITH WIRE BRUSH	
U	MAF	MCLSCO6	160	SURFACE, CLEAN WITH AIR	10
U	MAA	MCLACXX	VARIABLE	AREA, CLEAN WITH AIR, TO NINE SQUARE INCHES	
U	MAA	MCLBCO1	194	BRUSH, CLEAN IN SOLVENT, SMALL BRUSH	
U	MAA	MCLCSO1	351	COMPOUND(SEAL), SCRAPE OFF	
U	MAA	MCLMCO1	420	HANDS, CLEAN BY DIPPING IN FLUID CLEANER	11
U	MAA	MCLMWO1	271	HANDS, WIPE WITH CLOTH OR PAPER TOWEL	
U	MAF	MCLMWO2	160	HAND, WIPE WITH CLOTH OR PAPER TOWEL	
U	MAA	MCLMCO1	44	IRON(SOLDERING), CLEAN BY SHAKING	
U	MAF	MCLCXX	VARIABLE	OBJECT, CLEAN WITH BRUSH, PER SQUARE FOOT	12
U	MAF	MCLDCO3	88	OBJECT, CLEAN WITH BRUSH AND SOLVENT	
U	OBW	MCLMXX	VARIABLE	OBJECT, WASH	
U	OBW	MCLPCXX	VARIABLE	PART, CLEAN WITH AIR	
U	MAA	MCLSCXX	VARIABLE	SURFACE, CLEAN, WITH BRUSH, MEDIUM RESISTANCE	12
U	MAA	MCLSCO3	1584	SURFACE, CLEAN WITH SANDPAPER	
U	MAF	MCLSCO4	334	SURFACE, CLEAN WITH WIRE BRUSH, EMERY CLOTH AND RAG—PER FOUR LINEAR INCHES	
U	MAA	MCLSSXX	VARIABLE	SURFACE, SCRAPE TO CLEAN	
U	MAA	MCLSWXX	VARIABLE	SURFACE, WIPE WITH CLOTH	12
U	MAA	TCLOCXX	TABLE	OBJECT, CLEAN, PER STROKE	
U	TCA	TCLPCXX	TABLE	PART, CLEAN(BY HAND) WITH SOLVENT	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
ELEMENT INDEX

OCCUP- ATION	QUALITY	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
U	MAA	SCLCRXX	VARIABLE	CORROSION, REMOVE FROM SPOT ON SURFACE	13
U	MAA	SCLCSXX	VARIABLE	SPOT, CLEAN ON FLAT OR IRREGULAR SURFACE WITH PICK AND AIR	
U	MAA	SCLSCXX	VARIABLE	SURFACE, CLEAN WITH SOLVENT AND CLOTH	
U	MAA	SCLSHXX	VARIABLE	SURFACE, WIPE WITH WET CLOTH	14
U	MAA	MCPCIO1	322	CLAMP (IC TYPE), INSTALL AND REMOVE	
U	MAF	MCPCIO2	46	CLAMP (SPRING), INSTALL	
U	MAA	MCPCLXX	VARIABLE	CLAMP (CLECO), INSTALL OR REMOVE	
U	MAA	MCPCTO1	75	CLAMP (IC TYPE), TIGHTEN OR LOOSEN	
U	MAA	MCPPJXX	VARIABLE	JAW (PARALELL), TIGHTEN OR LOOSEN	
U	MAA	MCPSPXX	VARIABLE	CLAMP (SPRING), INSTALL OR REMOVE, SMALL OR LARGE	15
U	MAA	SCPCIXX	VARIABLE	CLAMP, INSTALL AND REMOVE	
U	MAA	MDAPRXX	VARIABLE	PART, REMOVE FROM MOUNTING LOCATION OR MATING PART	
U	MAO	MDAPR07	156	PART, REMOVE FROM MOUNTING LOCATION OR MATING PART, TIGHT FITTING PARTS	
U	MAA	MDAPR08	95	PART, REMOVE FROM MATING PART BY PUSHING WITH THUMBS	16
U	MAA	MDAPR09	107	PART, REMOVE FROM MATING PART WITH FINGER	
U	MAA	TOAPIXX	TABLE	PART, INSTALL INTO HOLE OR ONTO SHAFT	
U	MAF	BDP8DO1	42	BRUSH, DIP	
U	MAA	BDPCW01	38	CLOTH, WRING TO REMOVE EXCESS FLUID	
U	MAA	BDPHIO1	40	HAND, IMMERSE IN FLUID, REMOVE, AND SHAKE TO REMOVE EXCESS	
U	MAO	BDPODO1	63	OBJECT, DIP IN VISCOUS MATERIAL SUCH AS GREASE, RED LEAD OR SIMILAR	17
U	MAA	BDPPIXX	VARIABLE	PART, IMMERSE AND SHAKE	
U	MAA	TOPOIXX	TABLE	OBJECT, IMMERSE IN LIQUID OR PASTE	
U	MAA	BELAPXX	VARIABLE	APPLY PRESSURE	
U	MAA	BELDEXX	VARIABLE	DISENGAGE ONE OBJECT FROM ANOTHER OBJECT	
U	MAA	BELEDO1	7	EXTENDED DISTANCE	18
U	MAA	BELEFO1	7	EYE, FOCUS ON OBJECT	
U	MAA	BELETXX	VARIABLE	EYE, TRAVEL	
U	MAA	BELRGO1	6	REGRASP	
U	MAL	BELTOO1	27	TIME, OBSERVE	
U	MAA	BELTSXX	VARIABLE	TURN WRIST, SHIFT GRASP AND TURN, WITH OR WITHOUT PRESSURE	
U	MAA	BELTWXX	VARIABLE	TURN WRIST, TURN ONLY, WITH OR WITHOUT PRESSURE	
U	MAA	TELMFXX	TABLE	WEIGHT FACTOR, FIRST AND ADDITIONAL	17
U	FAL	BEVVTXX	VARIABLE	VEHICLE, TRAVEL	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
ELEMENT INDEX

OCCUP- ATION	QUALITY	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
U	MAL	MEVSF01	177	SFATBELT,FASTEN AND UNFASTEN	19
U	MAL	MEVTMO1	521	TRUCK,MOUNT AND DISMOUNT	
U	MOL	MFVTS01	395	TRUCK,START AND STOP	
U	MAF	BGNAC01	103	ALIGNMENT,CHECK WITH STRAIGHTEDGE	
U	MAF	BGNAC02	120	ALIGNMENT,CHECK WITH LEVEL	
U	MAA	BGNRR01	22	RULE,READ TO COMPARE MARK ALIGNMENT	20
U	MAF	BGNSA01	44	SQUARE,ALIGN TO MARK	
U	MAF	BGMSU01	139	SQUARE,USE(PART IN HAND)	
U	MAF	BGMSU02	218	SQUARE,USE(PART ON BENCH)	
U	MAL	MGMMNXX	VARIABLE	MATERIAL,MEASURE LENGTH OF	
U	MAW	MGMRUXX	VARIABLE	RULE(SIX-FOOT FOLDING),USE	
U	MAF	MGMSUXX	VARIABLE	SCALE,USE	
U	MAA	TGTOGXX	TABLE	OBJECT,GET AND PLACE	21
U	MAA	TGTOOXX	TABLE	OBJECT,OBTAIN	
U	MAO	BIOSS01	65	STAMP(METAL),STRIKE WITH HAMMER	22
U	MAO	MIDAIXX	VARIABLE	INK(OR PAINT),APPLY TO STENCIL WITH DAUBER	
U	MAA	MIDASXX	VARIABLE	STAMP(RUBBER),APPLY	
U	MAA	MIDOC01	126	DATE,CHANGE,AJUSTABLE RUBBER DATE STAMP	
U	MAA	MIDDI01	346	DECAL(NON-PRESSURE SENSITIVE),INSTALL	
U	MAA	MIDDR01	368	DECAL,REMOVE WITH TOOL	
U	MAO	MIDIAXX	VARIABLE	INK(OR PAINT),APPLY TO STENCIL W/ROLLER	23
U	MAA	MIDPA01	609	PAINT,APPLY TO IDENTIFICATION PLATE	
U	MAO	MIDSA01	94	STENCIL,APPLY WITH BLOCK STAMP	
U	MAO	MIDSP01	68	STENCIL,POSITION TO SURFACE	
U	MAO	MIDSS01	2800	STAMP(GANG),SET UP(10 MARKERS)	
U	MAL	MIDTA01	239	TAG,ATTACH TO OBJECT,WITH STRING(TIED)	
U	MAA	MIDTA02	185	TAG,ATTACH TO OBJECT WITH STRING(TAG PULLED THROUGH LOOP)	
U	MAA	MIDTA03	249	TAG,ATTACH TO OBJECT BY FORMING SLIP LOOP IN STRING	
U	MAA	MIDTA04	436	TAG,ATTACH STRING	24
U	MAL	MIDTA05	271	TAG(OR ENVELOPE),ATTACH TO OBJECT WITH WIRE (TWISTED)	
U	MAA	MIDTA06	317	TAG,ATTACH TO OBJECT WITH WIRE(LOOPED AND TWISTED)	
U	MAA	MIDTA07	356	TAG,ATTACH WIRE	
U	MAA	MIDTRXX	VARIABLE	TAG,REMOVE FROM OBJECT	
U	MAA	SIDDI01	468	DECAL(PRESSURE SENSITIVE),INSTALL,TO 1.5 X 2.5 INCHES	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
ELEMENT INDEX

OCCUP- ATION	QUALITY	DOWNSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
U	MAA	SIDSA01	1416	STENCIL, APPLY, PAINT, AND REMOVE	24
U	MAA	SIDTA01	640	TAPE, ATTACH TO PART AND WRITE IDENTIFICATION ON TAPE	25
U	MAA	BITBIO1	20	GAUGE (BURR INDICATOR), USE	
U	MAO	BITCA01	79	CALIPER (VERNIER), ADJUST SLIDING HEAD, FOUR INCHES	
U	MAF	BITCOXX	VARIABLE	CALIPER, OPEN OR CLOSE	
U	MAF	BITCSXX	VARIABLE	CALIPER, SET WITH SCALE	
U	MAF	BITCUXX	VARIABLE	CALIPER, USE	
U	MAA	BITCU07	92	CALIPER (VERNIER), USE TO MAKE ADDITIONAL CHECK ON INSIDE OR OUTSIDE DIMENSION	26
U	MAA	BITCU08	211	CALIPER, USE, CHECK OUTSIDE DIAMETER WITH PRE-SET SPRING CALIPER	
U	MAA	BITDIO1	26	INDICATOR (DIAL), USE TO CHECK POSITION OR SPOT	
U	MAA	BITETXX	VARIABLE	EYE TIMES, SHIFT FROM POINT TO POINT	
U	MAA	BITFE01	28	GAUGE (FEELER), USE TO CHECK CLEARANCE, PER SPOT, POSITION, OR FIRST INCH	
U	MAA	BITFE02	9	GAUGE (FEELER), USE TO CHECK CLEARANCE, ADDITIONAL INCH	
U	MAA	BITFE03	89	GAUGE (FEELER), SELECT FIRST LEAF FROM FAN TYPE FEELER IN METAL CASE	
U	MAA	BITFE04	38	GAUGE (FEELER), SELECT ADDITIONAL LEAF FROM FAN TYPE FEELER, LEAVES PREVIOUSLY MOVED OUT OF CASE	27
U	MAA	BITFP01	8	GAUGE (FLUSH PIN), USE	
U	MAA	BITG001	20	GAUGE (GRINDER), USE - CHECK OUTSIDE DIAMETER	
U	MAA	BITGS01	166	GAUGE (PASSAMETER), SET GAUGE WITH GAUGE BLOCK	
U	MAF	BITGU01	428	GAUGE (RING GAUGE), USE	
U	MAV	BITIRO1	44	INDICATOR (DIAL), READ	
U	MAA	BITIS01	49	INDICATOR (DIAL), SET TO ZERO	
U	MAA	BITIU01	14	INDICATOR (DIAL), USE TO CHECK HEIGHT ON FLAT SURFACE, FIRST INCH	
U	MAA	BITIU02	10	INDICATOR (DIAL), USE TO CHECK HEIGHT ON FLAT SURFACE	
U	MAA	BITMR01	95	INDICATOR (DIAL), USE TO CHECK MANDREL RUNOUT PER DIAMETER	
U	MAF	BITMXX	VARIABLE	MICROMETER, USE, READ SCALE	28
U	MAA	BITMU03	140	MICROMETER, USE, CHANGE POSITION OF THIMBLE FOR MAKING CHECK OF SIZE DIFFERENT FROM PRIOR CHECK	
U	MAA	BITMU04	22	MICROMETER, USE TO CHECK PART AFTER CHANGE SETTING, BIT-MU-03	
U	MAA	BITMU05	74	MICROMETER, USE, TO CHECK PART (CHANGE SETTING, BIT-MU-03, NOT NECESSARY)	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OCCUP- ATION	QUALITY	DWMS TOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
U	MAA	BITPG01	31	GAUGE(PLUG),CHECK HOLE FOR SIZE ONLY WITH GO END	28
U	MAA	BITPG02	27	GAUGE(PLUG),CHECK HOLE FOR SIZE ONLY WITH NO GO END	
U	MAA	BITPG03	34	GAUGE(PLUG),CHECK FOR SIZE AND DEPTH	
U	MAA	BITREXX	VARIABLE	ROD,EXAMINE VISUALLY WITH NAKED EYE	29
U	MAA	BITSN01	26	GAUGE(SNAP),USE TO CHECK DIAMETER OF PART	
U	MAA	BITWEXX	VARIABLE	WIRE,EXAMINE VISUALLY,SAFETY,TWISTED	
U	MAA	MITBC01	561	BATTERY,CHECK WATER LEVEL,12 VOLT WATER TYPE BATTERY WITH SIX CELLS	
U	TUA	MITCA01	165	CONTROL,ADJUST AND OBTAIN DIAL READING	
U	MAA	MITCA02	79	CONTROL,ADJUST KN08/DIAL AND READ	
U	MAA	MITCA03	209	CONTROL,ADJUST WITH SCREWDRIIVER,READ OSCILLOSCOPE	30
U	MAA	MITCA04	161	CONTROL,ADJUST,ZERO METER WITH TOOL	
U	MAA	MITGUXX	VARIABLE	GAUGE(TELESCOPE AND OUTSIDE MICROMETER),USE	
U	MAF	MITGU03	1100	GAUGE(HEIGHT GAUGE),USE	
U	MAF	MITGU04	889	GAUGE(DEPTH VERNIER),USE	
U	MAA	MITGU05	126	GAUGE(PLUG GAUGE,GO/NO GO),USE	
U	MAA	MITGU06	205	GAUGE(FEELER),USE,GAUGE CLEARANCE OR END PLAY	
U	MAO	MITIA01	182	INDICATOR,ADJUST TO WORK,MAGNETIC BASE INDICATOR	31
U	MAF	MITIS01	62	INDICATOR(DIAL),SET	
U	MAA	MITMNX	VARIABLE	MICROMETER,MEASURE DEPTH	
U	MAF	MITMUXX	VARIABLE	MICROMETER,USE	
U	MAA	MITMU04	427	MICROMETER,USE-CHECK OBJECTS OF DIFFERENT SIZE	
U	MAA	MITMU05	380	MICROMETER,USE-CHECK OBJECTS OF SAME SIZE	
U	MAF	MITMU06	343	MICROMETER,USE(REMOVE AND REPLACE EXTENSION ON INSIDE MICROMETER)	
U	MAA	MITMU07	265	MICROMETER,USE,CHECK INSIDE DIAMETER OR BETWEEN TWO SURFACES	32
U	MAW	MITWM01	185	WIRE,MEASURE FOR GAGE	
U	MAA	TITETXX	TABLE	EYE,TRAVEL FROM POINT TO POINT TO INSPECT	
U	MAA	TITGUXX	TABLE	GAUGE(FEELER WITH LOCKNUT),USE	
U	MAA	TITMNX	TABLE	MICROMETER(OUTSIDE),MEASURE DIMENSION AND READ	33
U	MAA	TITOEXX	TABLE	OBJECT,EXAMINE SURFACE CONDITION VISUALLY WITH NAKED EYE	
U	MAA	TITUGXX	TABLE	GAUGE(PLUG),USE	34
U	MAA	SITATXX	VARIABLE	AREA,INSPECT WITH LIGHT	
U	MAA	SITMUXX	VARIABLE	MICROMETER(DEPTH),USE WITH PARALLEL BARS	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OCCUP- ATION	QUALITY	DNMSTDP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
U	MAA	MJPAPXX	VARIABLE	APRON, PUT ON AND REMOVE	34
U	MAW	MJPB101	170	BAR(LOCKING), INSTALL AND REMOVE, TOOL CABINET OR SIMILAR	
U	MAF	MJPCCXX	VARIABLE	CORD(ELECTRIC), CONNECT AND DISCONNECT	35
U	MAA	MJPCI01	127	COMPONENT(BAYONET TYPE), INSTALL	
U	MAF	MJPC001	73	COMPARTMENT(TOOL), OPEN OR CLOSE MOUNTED ON TRUCK OR SIMILAR	
U	MAL	MJPC002	102	COMPARTMENT(DASH), OPEN AND CLOSE	
U	MAA	MJPCP01	1145	COVERALLS, PUT ON AND REMOVE	
U	MAA	MJPCR01	69	COMPONENT(BAYONET TYPE), REMOVE	
U	MAF	MJPCU01	1186	CORD(ELECTRIC EXTENSION), UNCOIL, CONNECT, DISCONNECT AND COIL	
U	MAA	MJPDCXX	VARIABLE	DOOR(CABINET), CLOSE AND OPEN, SWING OR SLIDE	36
U	MAF	MJPDC05	276	DOOR(CABINET), CLOSE AND OPEN, UNLOCK AND LOCK	
U	MAA	MJPDC06	128	DOOR(CABINET), CLOSE AND OPEN, SINGLE OR DOUBLE WITH LOCKING HANDLE OR KNOB	
U	MAO	MJPDC07	349	DOOR(CABINET), CLOSE AND OPEN, SECURED WITH PIN LATCH	
U	MAA	MJPDOXX	VARIABLE	DRAWER(STORAGE), OPEN AND CLOSE	
U	MAA	MJPDO09	30	DRAWER(TOOL BOX), OPEN AND CLOSE	37
U	MAA	MJPEP01	131	EARMUFFS, PUT ON AND REMOVE	
U	MAA	MJPGGX	VARIABLE	GLASSES, GOGGLES, OR SHIELD, PUT ON AND REMOVE	
U	MAA	MJPGG04	477	GLASSES, REMOVE FROM CASE, PUT ON, REMOVE, AND RETURN TO CASE	
U	MAA	MJPGH01	152	GLASS(ILLUMINATED MAGNIFYING), MOVE INTO POSITION AND MOVE ASIDE	
U	MAA	MJPGPXX	VARIABLE	GLOVES, PUT ON AND REMOVE	
U	MAA	MJPGR01	230	GUN(SPRAY), REPLACE	
U	MAW	MJPHCXX	VARIABLE	HOSE(AIR), CONNECT OR DISCONNECT	38
U	MAA	MJPHPXX	VARIABLE	HAT, PUT ON AND REMOVE	
U	MAW	MJPHM01	557	HOSE(AIR), WIND FOR STORAGE, 25 FEET LONG	
U	OBW	MJPIA01	224	INDICATOR(DIAL), ASSEMBLE TO MAGNETIC BASE	
U	OBW	MJPIA02	373	INDICATOR(DIAL), ASSEMBLE TO HEIGHT GAUGE	
U	OBW	MJPID01	179	INDICATOR(DIAL), DISASSEMBLE FROM MAGNETIC BASE	
U	OBW	MJPID02	282	INDICATOR(DIAL), DISASSEMBLE FROM HEIGHT GAUGE	
U	MAA	MJPJP01	324	JACKET, PUT ON AND REMOVE	
U	MAF	MJPLM01	211	LADDER, MOVE TO NEW LOCATION	39
U	MAA	MJPHM01	204	MASK(FACE), PUT ON AND REMOVE, AIR FILTERING, DISPOSABLE TYPE MASK	
U	MAA	MJPPCXX	VARIABLE	PAPER(STENCIL), CUT ON PAPER CUTTER	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OCCUP- ATION	QUALITY	DWMSTOP ELEMENT	TMO VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
U	MAA	MJPP101	112	PLUG, INSERT IN AND REMOVE FROM RECEPTACLE	39
U	MAA	MJPPP01	685	PLUG, PUT IN AND REMOVE FROM EAR	
U	MAF	MJPRG01	137	RAG, GET FROM COVERED CAN	
U	MAI	MJPSA01	219	STENCIL, AFFIX ON ROLL STAMP, TEST AND REMOVE	
U	MAF	MJPS001	772	STEPLADDER, OBTAIN FROM FLOOR, SET UP, TAKE DOWN, AND ASIDE TO FLOOR, LADDER TO 12 FEET TALL	40
U	MAA	MJPSP01	879	SMOCK (TIE TYPE), PUT ON AND REMOVE	
U	MAA	MJPTGXX	VARIABLE	TOOL, GET FROM AND RETURN TO TOOL DRAWER	
U	MAA	MJPT0XX	VARIABLE	TOOLBOX (MACHINIST), OPEN AND CLOSE	
U	MAA	MJPT003	195	TOOLBOX, OPEN AND CLOSE, STORAGE TYPE 2.5X5X1.5 FEET	
U	MAA	MJPT004	70	TOOLBOX, OPEN AND CLOSE LID	
U	MAW	MJPTU01	158	TOOLBOX, UNLOCK, OPEN, CLOSE, AND LOCK	41
U	MAO	MJPWA01	167	WIRE, ATTACH TO HOOK, SINGLE STRAND WIRE	
U	MAO	MJPWA02	110	WIRE, ATTACH TO PART	
U	MAO	MJPWA03	83	WIRE, ATTACH TO LARGE PART	
U	TBA	SJPCAXX	VARIABLE	CREAM (HAND), APPLY	
U	MAA	SJPCRO1	261	CABLE, REMOVE FROM AND RETURN TO CASE, CABLE ROLLED AND STOWED IN CASE	
U	MAA	SJPCRO2	1218	CABLE, REMOVE FROM AND RETURN TO CASE, CABLE WOUND ON RACK IN LID	42
U	MAA	SJPGF01	2032	GUN (HAND OPERATED GREASE), FILL	
U	MUA	SJPGP01	3452	GUN (PAINT SPRAY), PREPARE FOR USE	
U	MAA	SJPK001	136	KNIFE (POCKET), OPEN AND CLOSE	
U	MAA	SJPM501	1659	MICROMETER (INSIDE), SET UP WITH TWO EXTENSIONS	43
U	MAA	SJPPHXX	VARIABLE	PLATE, MASK EDGES WITH TAPE PRIOR TO PAINTING	
U	MAA	SJPSC01	994	STRAIGHTEDGE, CLAMP TO PART WITH THREE C-CLAMPS	
U	MAA	SJPTAXX	VARIABLE	TORCH (PORTABLE PROPANE), ASSEMBLE/DISASSEMBLE	
U	MAF	BLOLD01	43	LINE, DRAW USING SQUARE	
U	MAF	BLOLSXX	VARIABLE	LINE, SCRIBE, TO SCALE OR STRAIGHTEDGE	
U	MAF	BLOPH01	50	POINT, MARK	44
U	MAF	BLOSA01	189	STRAIGHTEDGE, ALIGN, TO POINTS OR LINE	
U	MAA	MLOLSXX	VARIABLE	LINE, SCRIBE TO SCALE (STRAIGHTEDGE)	
U	MAA	MLOLS13	125	LINE, SCRIBE, EXACT POSITION, METAL SURFACE	45
U	MAF	MLOPH01	188	POINT, MARK WITH PENCIL	
U	MAA	SLODMXX	TABLE	DIMENSION, MEASURE AND MARK	
U	MAA	BLUBLXX	VARIABLE	SURFACE (LINEAR), LUBRICATE WITH BRUSH, CLOTH, FINGER, OR STICK	
U	MAA	BLUBSXX	VARIABLE	SURFACE (SPOT), LUBRICATE WITH BRUSH, CLOTH, FINGER, OR STICK	46

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OCCUP- ATION	QUALITY	OWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
U	MAW	BLUDL01	56	OIE(OR TAP),LUBRICATE WITH OIL FROM LEVER OR DIAPHRAGM TYPE CAN	46
U	MAA	BLUGB01	34	LUBRICANT,APPLY TO FITTING WITH BUTTON TYPE GUN	
U	MAA	BLUGL01	36	LUBRICANT,APPLY TO FITTING WITH HAND OPERATED LEVER TYPE GUN(PER STROKE)	
U	MAA	BLUOL01	28	LUBRICANT,APPLY WITH OIL CAN(PER LINEAR FOOT)	
U	MAA	BLUOS01	18	OIL,APPLY TO SPOT WITH TRIGGER TYPE OIL CAN	
U	MAA	BLUOS02	15	OIL,APPLY TO SPOT WITH DIAPHRAGM TYPE OIL CAN	
U	MAA	BLUTA01	26	LUBRICANT,APPLY WITH TUBE TO AREA,1 INCH X 1 INCH	
U	MAA	BLUTS01	20	LUBRICANT,APPLY WITH TUBE TO SPOT,1/4X1/4 INCH	47
U	MAA	SLUALXX	VARIABLE	LUBRICANT,APPLY TO SMALL OBJECT	
U	MAA	SLULAXX	TABLE	LUBRICANT,APPLY TO ZERK FITTING WITH HAND OPERATED GUN	
U	MAA	BMHDS01	30	OBJECT,START MOVING BY PUSHING(WHEELED OBJECT)	
U	MAA	BMHWP01	160	WHEELBARRROW,PICK UP HANDLES AND PUT DOWN	
U	MAA	MMHOS01	42	OBJECT,START MOVEMENT BY PUSHING	
U	MAA	BNFBT01	197	BOW,TIE IN STRING ON OBJECT	48
U	MAA	BNFBU01	40	BOW,UNTIE	
U	MAA	BNFKT01	215	KNOT,TIE,SQUARE,USING TWO ENDS OF STRING	
U	MAA	BNFKT02	101	KNOT,TIE,HALF HITCH,USING SINGLE END OF LINE	
U	MAA	BNFKT03	95	KNOT,TIE,(STRING),SLIP HALF HITCH,USING SINGLE END OF LINE	
U	MAA	BNFKT04	70	KNOT,TIE,CLOVE HITCH,USING SINGLE END OF LINE	
U	MAA	BNFKT05	83	KNOT,TIE(STRING),BOWLINE,USING SINGLE END OF LINE	
U	MAA	BNFKT06	78	KNOT,TIE(ROPE),HALF HITCH	
U	MAF	BNFKT07	147	KNOT,TIE(ROPE),CLOVE HITCH	
U	MAF	BNFKT08	100	KNOT,TIE(ROPE),BOWLINE	49
U	MAA	BNFKT09	267	KNOT,TIE(ROPE),BARREL HITCH,TIMBER HITCH,OR STOPPER	
U	MAA	BNFKT10	164	KNOT,TIE(ROPE),SQUARE	
U	MAA	MNFEMXX	VARIABLE	EDGE,MASK WITH PAPER TAPE	
U	MAW	MNFFOXX	VARIABLE	FASTENER,OPEN AND CLOSE ON CASE	
U	MAA	MNFIP01	93	PLUG(OR CAP),INSTALL,NON-THREADED PLASTIC	
U	MAA	MNFISXX	VARIABLE	WIRE(SAFETY),INSTALL USING SAFETY WIRE TWISTING PLIERS	50
U	MAA	MNFKI01	311	KEY,INSTALL,WOODRUFF WITH HAMMER AND DRIFT PUNCH	
U	MAA	MNFKI02	87	KEY,INSTALL,STRAIGHT MACHINE,LOOSE FIT,NO TOOLS NEEDED	

**DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OCCUP- ATION	QUALITY	DWMSTD ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
U	MAA	MNFKT03	293	KEY, INSTALL, STRAIGHT MACHINE, TIGHT FIT, USE OF HAMMER AND DRIFT PUNCH REQUIRED	50
U	MAA	MNFKR01	370	KEY, REMOVE, WOODRUFF, WITH HAMMER AND DRIFT PUNCH	
U	MAA	MNFKR02	38	KEY, REMOVE, STRAIGHT MACHINE, LOOSE FIT, NO TOOLS REQUIRED	
U	MAA	MNFKR03	258	KEY, REMOVE, STRAIGHT MACHINE, HAMMER AND DRIFT PUNCH REQUIRED	
U	MAA	MNFKR04	286	KEY, REMOVE, TAPERED MACHINE, HAMMER AND PUNCH REQUIRED	
U	MAA	MNFLCXX	VARIABLE	LOCK(LATCH), CLOSE AND LOCK	51
U	MAA	MNFLOXX	VARIABLE	LOCK(LATCH), OPEN AND MOVE ASIDE	
U	MAO	MNFLT01	48	LATCH, TURN TO CLOSE BOX OR CONTAINER	
U	MAO	MNFLT02	47	LATCH, TURN TO OPEN BOX OR CONTAINER	
U	MAF	MNPPA01	173	PASTE, APPLY WITH BRUSH	
U	MAA	MNFP1XX	VARIABLE	PIN, INSTALL, VARIOUS TYPES	52
U	MAA	MNFP01	40	PIN, PREPARE TO PRESS(REMOVAL)	
U	MAA	MNFP02	107	PIN, PREPARE TO PRESS(INSTALLATION)	
U	MAA	MNFP1XX	VARIABLE	PIN, REMOVE, VARIOUS TYPES	53
U	MAA	MNFRI01	271	RING(SNAP), INSTALL, INTERNAL OR EXTERNAL, UP TO ONE INCH FROM END OF PART USING SPECIAL SNAP RING PLIERS	
U	MAA	MNFRPXX	VARIABLE	PLUG(OR CAP), REMOVE, NON-THREADED PLASTIC, USING A SCREWDRIVER	
U	MAA	MNFRO1	136	RETAINER, REMOVE, SNAP RING, INTERNAL OR EXTERNAL USING SNAP RING PLIERS	
U	MAA	MNFRO2	865	RETAINER, REMOVE, RING, SPRING, LOCKWIRE OR FLAT STEEL, USING TOOLS	
U	MAA	MNFRO3	146	RETAINER, REMOVE, SNAP ON CLIP TYPE, USING PLIERS	
U	MAA	MNFR1XX	VARIABLE	RETAINER(180-ARC), INSTALL OR REMOVE	54
U	MAA	MNPS101	51	STAPLE, INSTALL WITH PLIER GRIP STAPLER	
U	MAA	MNPSR01	86	STAPLE, REMOVE, 3/8 OR 1/2 INCH, USING PLIER TYPE STAPLE REMOVER	
U	MAA	MNFTAXX	VARIABLE	TAPE(ADHESIVE), ATTACH TO DESIRED POSITION	
U	MAA	MNFTFX	VARIABLE	TURNLOCK, FASTEN OR UNFASTEN(DZUS, CAMLOCK, ETC.)	
U	MAO	MNFTG01	65	TAPE, GET FROM DISPENSER, 6 INCH LENGTH OF TAPE	
U	MAA	MNFTRO1	167	TAPE, REMOVE FROM ROLL	55
U	MAA	MNFTRO2	97	TAPE, REMOVE FROM OBJECT	
U	MAA	MNFTRO3	191	TAPE(MASKING), REMOVE	
U	MAA	MNFT1XX	VARIABLE	TAPE, TEAR FROM LOOSE ROLL DISPENSER	
U	MAA	MNFWC01	94	WIRE(SAFETY), CUT OFF EXCESS AND BEND END OVER, TWISTED SINGLE STRAND TO .0625 INCH DIAMETER	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OCCUP- ATION	QUALITY	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
U	MAA	MNFWIXX	VARIABLE	WIRE(SAFETY), INSERT THROUGH HOLE	55
U	MAA	MNFWOXX	VARIABLE	WIRE, OBTAIN FROM ROLL AND STRAIGHTEN END	56
U	MAA	MNFWR01	184	WIRE(SAFETY), REMOVE FROM FIRST STATION, SINGLE STRAND	
U	MAA	MNFWR02	270	WIRE(SAFETY), REMOVE, DOUBLE STRAND, TWISTED, FIRST STATION	
U	MAA	MNFWR03	225	WIRE(SAFETY), REMOVE, DOUBLE STRAND, TWISTED ADDITIONAL STATION UP TO 6 INCHES APART	
U	MAA	MNFWSEX	VARIABLE	WIRE(SAFETY), SECURE TO ANCHOR STATION WITH ONE TWIST BY HAND	
U	MAA	MNFWTXX	VARIABLE	WIRE(SAFETY), TWIST BETWEEN ANCHORS WITH SAFETY WIRE PLIERS, WIRE TO .0625 INCH DIAMETER	57
U	MAA	TNFWSEX	TABLE	NAIL, SET AND DRIVE	
U	MAA	TNFWPAX	TABLE	PRESS(ARBOR), ACTUATE TO INSTALL OR REMOVE PIN OR CYLINDRICAL PART	58
U	MAA	TNFWIXX	TABLE	WIRE(SAFETY), INSTALL, TWO-STRAND TWISTED BETWEEN UNOBSTRUCTED ANCHORS, WIRE TO .0625 INCH DIAMETER	60
U	MAA	SNFTCXX	VARIABLE	TAPE(PLASTIC), CUT PIECE FROM ROLL	61
U	MAA	SNFWIXX	VARIABLE	WIRE(SAFETY-CONTINUOUS), INSTALL	
U	MAA	SNFWRXX	VARIABLE	WIRE(SAFETY-CONTINUOUS), REMOVE	
U	TAA	TOGNMXX	TABLE	NUMBERS, MULTIPLY(READ, TRANSPOSE)	
U	MAA	SGOU01	492	DRAWER(FILING CABINET), UNLOCK, OPEN, CLOSE, AND LOCK	62
U	MAA	SGOU02	719	DRAWER(FILING CABINET), UNLOCK, OPEN, CLOSE, AND LOCK	
U	MAA	BOMC001	35	CONTAINER, DUMP PARTS	
U	MAO	BOMHP01	56	HOOK, PLACE IN PART, S-TYPE HOOK	
U	MAA	BOMOG01	38	OBJECT, GAIN CONTROL AFTER GET HANDFUL OF OBJECTS	
U	MAO	BOMPHXX	VARIABLE	PART, HANG WITH "S" HOOK	
U	MAA	BOMPSXX	VARIABLE	PARTS, SEPARATE BY PULLING	63
U	MAA	MONB001	97	BOOK, OPEN TO MARKED PAGE	
U	MAA	MONBR01	203	BOOK, REMOVE FROM AND REPLACE IN OPEN BOOKCASE	
U	MAO	MONC001	129	CONTAINER, DUMP PARTS	
U	MAA	MONCOXX	VARIABLE	CLIPBOARD, OBTAIN, AFFIX, OR REMOVE DOCUMENT AND ASIDE	
U	MAA	MONDO01	108	DOOR(PASSAGE), OPEN AND CLOSE WITH DOORKNOBS PUSH OR PULL REQUIRED TO OPEN DOOR	
U	MAA	MONDO02	68	DOOR(PASSAGE), OPEN AND CLOSE, WITH DOORKNOBS AND CLOSER MECHANISM, PUSH REQUIRED TO OPEN DOOR	
U	MAA	MONDO03	90	DOOR(PASSAGE), OPEN AND CLOSE, WITH DOORKNUB, PULL TO OPEN, WITH AUTOMATIC CLOSER	64

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OCCUP- ATION	QUALITY	DWNSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
U	MAA	MOHDD04	75	DOOR(PASSAGE),OPEN AND CLOSE,NO LATCH,PUSH TO OPEN,WITH AUTOMATIC DOOR CLOSER	64
U	MAA	MOHDD05	114	DOOR(PASSAGE),OPEN AND CLOSE,NO LATCH,PULL TO OPEN,WITH AUTOMATIC DOOR CLOSER	
U	MAA	MOHDD06	91	DOOR(PASSAGE),OPEN AND CLOSE,QUICK RELEASE PUSH TO OPEN,WITH AUTOMATIC CLOSER	
U	MAA	MOHDD07	127	DOOR(PASSAGE),OPEN AND CLOSE,QUICK RELEASE, PULL TO OPEN,WITH AUTOMATIC CLOSER	
U	MAA	MOHDD08	75	DOOR(PASSAGE),OPEN AND CLOSE,TWO-WAY SWINGING	
U	MAA	MOHDD09	111	DOOR(PASSAGE),OPEN,SLIDING	
U	MAA	MOHDD10	138	DOOR(PASSAGE),CLOSE,SLIDING	
	MAL	MOHDDR01	463	DOOR(OVERHEAD),RAISE AND LOWER,MANUALLY	65
U	MAF	MOHDDU01	143	DOOR(OFFICE),UNLOCK	
U	MAA	MOHF101	135	FUSE,INSTALL IN FUSE HOLDER/BLOCK	
U	MAA	MOHFR01	83	FUSE,REMOVE FROM HOLDER/BLOCK	
U	MAA	MOHGQXX	VARIABLE	GATE(CONVEYOR),OPEN OR CLOSE,SINGLE GATE OR ONE SIDE OF DOUBLE GATE	
U	MAL	MOHHA01	197	HOOK,ATTACH AND DETACH TO/FROM ITEM	
U	MAO	MOHMR01	42	HOOK("S"),REMOVE FROM PART	
U	MAA	MOHLRXX	VARIABLE	LID,REMOVE AND REPLACE,TRASH CAN OR SIMILAR TO 24 INCHES DIAMETER	
U	MAA	MOHUG01	65	OBJECT,PENCIL,GET FROM SHIRT POCKET	66
U	MAA	MOHOP01	73	OBJECT,PLACE IN SHIRT POCKET,SUCH AS PENCIL, SCRIBE,OR SCALE	
U	MAF	MOHUIS01	590	OBJECT(HEAVY),SLIDE ON FLOOR	
U	MAL	MOHPUXX	VARIABLE	OBJECT,PICK UP AND SET DOWN	
U	MAF	MOHPP01	180	PART,PICK UP AND SET DOWN	
U	MAO	MOHWP01	41	WIRE,PLACE THROUGH HOLE IN OBJECT	
U	MAA	TOHORXX	TABLE	OBJECT,REPOSITION AT WORKPLACE BY SLIDING OR LIFTING AND TURNING,OBJECT TO 50 POUNDS WEIGHT,TURN TO 180 DEGREES	67
U	MAA	TOHOTXX	TABLE	OBJECT,TURN ABOUT HORIZONTAL OR VERTICAL AXIS TO 180 DEGREES,OBJECT ATTACHED TO STAND OR FIXTURE,EFFECTIVE NET RESISTANCE(ENR) TO 50 POUNDS	
U	MAA	SOHBOX	VARIABLE	BOOK,OBTAIN FROM OPEN SHELF AND RETURN	68
U	MAA	SOHCHXX	VARIABLE	OBJECT,HANG ON HOOK	
U	MAL	SOHPHXX	VARIABLE	PLYWOOD,MANHANDLE	
U	MAA	SOHPR01	123	PART,REMOVE WITH PRY TOOL	
U	MAO	BPAPA01	63	PAINT(GREASE OR VARNISH),APPLY WITH BRUSH	
U	MAA	MPAPSXX	VARIABLE	PAINT,SPRAY	69
U	MAA	MPAPSXX	VARIABLE	PAINT,SPRAY	

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OCCUP- ATION	QUALITY	OWNSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
U	MAA	SPAAPXX	VARIABLE	PAINT, APPLY WITH BRUSH ATTACHED TO BOTTLE CAP	69
U	MAA	SPAPAXX	VARIABLE	PAINT, APPLY WITH BRUSH	
U	MAA	MPHDAO1	212	DOCUMENT, ATTACH TO ITEM WITH RUBBER BAND	
U	MAA	MPHDOO1	139	DOCUMENT, DETACH FROM ITEM AND UNROLL, DOCUMENT SECURED WITH RUBBER BAND	70
U	MAA	MPHDRO1	275	DOCUMENT, REMOVE FROM BAG, UNFOLD, FOLD, AND REPLACE IN BAG	
U	MAA	MPHDRO2	128	DOCUMENT, REMOVE FROM AND RETURN TO PLASTIC BAG	
U	MAA	BPKBOO1	25	BAG(PAPER), OPEN, PREPARATORY TO PLACE OBJECT IN BAG	
U	MAA	BPKCCXX	VARIABLE	CONTAINER(PLASTIC), CLOSE, SNAP-ON LID	
U	MAA	BPKCOXX	VARIABLE	CAN, OPEN WITH STATIONARY CRANK TYPE CAN OPENER	71
U	MAA	BPKCRO1	39	COVER, REMOVE FROM PLASTIC CONTAINER, SNAP ON COVER, 1-7 INCHES DIAMETER	
U	MAA	BPKEDXX	VARIABLE	ENVELOPE, OPEN BY TEARING END	
U	MAA	BPKJC01	62	JAR, CLOSE, SCREW TYPE LID	
U	MAA	BPKJO01	66	JAR, OPEN, SCREW TYPE LID	
U	MAA	BPKTCXX	VARIABLE	TAPE, CUT WITH KNIFE TO OPEN PACKAGE, BOX, ETC.	72
U	MAA	MPKBOXX	VARIABLE	BOX, OPEN	
U	MAA	MPKBTXX	VARIABLE	BAG(PAPER), TEAR TO OPEN	
U	MAA	MPKCCXX	VARIABLE	CAN(HERMETICALLY SEALED), CLOSE OR OPEN	
U	MAA	MPKCOXX	VARIABLE	CAN(METAL), OPEN WITH STATIONARY CRANK TYPE CAN OPENER, EMPTY CONTENTS, AND ASIDE CAN	
U	MAA	MPKCSXX	VARIABLE	CAN, SCREW CAP ON AND OFF	73
U	MAO	MPKDOO1	170	DRUM(STORAGE), OPEN	
U	MAA	MPKEOXX	VARIABLE	ENVELOPE(PARTS), OPEN AND REMOVE CONTENTS	
U	MAA	MPKJC01	109	JAR, CLOSE, LID SCREWED ON HAND TIGHT	
U	MAA	MPKJO01	113	JAR, OPEN, SCREW TYPE LID	
U	MAA	MPKLC01	306	LID, CLOSE, PRY OPEN TYPE CAN TO 6 INCHES DIAMETER	74
U	MAF	MPKLI01	160	LID, INSTALL ON CAN	
U	MAA	MPKLI02	1016	LID, INSTALL AND SEAL ON FIVE-GALLON CONTAINER, 16 PRY TABS	
U	MAA	MPKLPO1	382	LID, PRY OFF CAN TO 6-INCH DIAMETER	
U	MAO	MPKLRO1	45	LID(BOX), REMOVE	
U	MAA	MPKLRO2	764	LID, REMOVE FROM FIVE-GALLON CONTAINER, 16 PRY TABS	74
U	MAA	MPKOU01	178	OBJECT, UNWRAP	
U	MAA	MPKSCO1	158	STRING, CUT AND OPEN BAG	
U	MAA	TPKEOXX	TABLE	ENVELOPE, OPEN, EMPTY, AND ASIDE	

OFFENSE WORK MEASUREMENT STANDARD TIME DATA
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OCCUP- ATION	QUALITY	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
U	MAA	TPKTCXX	TABLE	TAPE,CUT TO OPEN BOX,TAPE ON TWO SIDES AND MIDDLE OF BOX TOP	74
U	MAA	SPKCOXX	VARIABLE	CAN,OPEN AND CLOSE,PRY TYPE LID TO SIX INCHES DIAMETER	
U	MAA	TPLOGXX	TABLE	OBJECT,GET,PLACE TO USE,AND PLACE ASIDE	75
U	MAA	TPLOPXX	TABLE	OBJECT,PLACE WITH A COMBINATION OF MOVE AND/OR POSITION MOTIONS USING THE HAND(S) OR FINGERS	
U	TAA	MPTNCO1	67	NOZZLE(AEROSOL PAINT SPRAY CAN),CLEAR	76
U	TBA	BRDORXX	VARIABLE	DIGIT(S)(MIXED NUMBER),READ & RETAIN	
U	MAF	BRDIL01	98	ITEM,LOCATE IN COLUMN STARTS-WITH BOOK OPEN TO DESIRED PAGE AND EYES	
U	TBA	BRDNRXX	VARIABLE	NUMBER,READ,FIRST OR ADDITIONAL,NO EYE TRAVEL	
U	MAA	BRDWI01	7	WORD,READ,INDIVIDUAL WORD,ALPHA NUMERIC,OR NUMBER TO TRANSPOSE	
U	MAA	BRDWS01	5	WORD(SEQUENCE),READ,PER WORD	
U	MAF	MROPFO1	214	PAGE,FIND,IN MANUAL	
U	TBA	TRDDAXX	TABLE	DIGIT(S),ALPHA-NUMERIC,READ & RETAIN EYE TRAVEL TO & FROM NUMBER	77
U	TBA	TRDDNXX	TABLE	DIGIT(S),NUMERIC,READ & RETAIN,EYE TRAVEL TO & FROM NUMBER	
U	TBA	TRDNAXX	TABLE	NUMBER(S),ALPHA-NUMERIC,READ AND VERIFY,EYE TRAVEL FROM DOCUMENT TO DOCUMENT	
U	TBA	TRDNNXX	TABLE	NUMBER(S),NUMERIC,READ & VERIFY,EYE TRAVEL FROM DOCUMENT TO DOCUMENT	78
U	MAL	TROSSXX	TABLE	SHEET(S),SCAN FOR FAMILIAR REFERENCE POINT(S), LETTER SIZE SHEETS	
U	MAA	MSTCSXX	VARIABLE	COAT,SPRAY(AEROSOL)	79
U	MAA	BTFFMXX	VARIABLE	FASTENER(THREADED),TURN WITH FINGER MOVE ONLY	
U	MAA	BTFFSXX	VARIABLE	FASTENER(THREADED),TURN BY SHIFT GRASP AND MOVE WITH FINGERS	
U	MAL	BTFFTXX	VARIABLE	FASTENER(THREADED),TURN WITH FINGER, PER THREAD	
U	MAA	BTFNPO1	32	NUT,POSITION ON STUD	
U	MAD	BTFNPO2	57	NUT(SMALL),POSITION AND ENGAGE ON BOLT	
U	MAA	BTFSBXX	VARIABLE	FASTENER(THREADED),START(BLIND)	80
U	MAA	BTFSS01	10	FASTENER(THREADED),SPIN	
U	MAA	BTFSVXX	VARIABLE	FASTENER(THREADED),START(VISIBLE)	
U	MAA	BTFTMO1	18	FASTENER(THREADED),TIGHTEN OR LOOSEN	
U	MAA	BTFMA01	24	WASHER,ALIGN TO NUT BEFORE STARTING TO POSITION ON BOLT/SCREW	
U	MAA	BTFWPXX	VARIABLE	WASHER,PLACE ON SCREW OR BOLT	
U	MAA	BTFWRXX	VARIABLE	FASTENER(THREADED),TURN WITH WRIST,PER REVOLU- TION	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OCCUP- ATION	QUALITY	DWMSDP ELEMENT	THU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
U	MAA	BTFSXX	VARIABLE	FASTENER(THREADED),TURN WITH WRIST,SHIFT GRASP AND TURN	81
U	MAA	BTFTXX	VARIABLE	FASTENER(THREADED),TURN WITH WRIST	
U	MAA	MTFCIXX	VARIABLE	CAP(OR PLUG),INSTALL,PLASTIC THREADED	
U	MAA	MTFCRXX	VARIABLE	CAP(OR PLUG),REMOVE,PLASTIC THREADED	
U	MAA	MTFFGX	VARIABLE	FASTENER(THREADED),GET(EASY)AND START(VISIBLE)	
U	MAA	MTFFIXX	VARIABLE	FASTENER(THREADED),INSTALL	
U	MAA	MTFFPXX	VARIABLE	FASTENER(THREADED),GET(JUMBLED)AND START (VISIBLE)	82
U	MAA	MTFFSXX	VARIABLE	FASTENER(THREADED),GET(JUMBLED SIMO) AND START (VISIBLE)	
U	MAA	MTFNPXX	VARIABLE	NUT AND WASHER,POSITION ON STUD	
U	MAA	MTFPF01	80	FASTENER(THREADED),POSITION IN HOLE	
U	MAA	MTFWP01	73	WASHER,PLACE ON BOLT OR SCREW	
U	MAA	MTFWP02	62	WASHER,PLACE IN ALIGNMENT WITH NUT PRIOR TO STARTING NUT ON THREADS	
U	MAA	TTFFIXX	TABLE	FASTENER(THREADED),INSTALL WITH HAND	83
U	MAA	TTFFRXX	TABLE	FASTENER(THREADED),REMOVE WITH HAND	
U	MAA	BTLPXX	VARIABLE	BAR(PRY),USE	
U	MAA	BTLCUXX	VARIABLE	CHISEL(CULD),USE,FIRST OR ADDITIONAL BLOWS	
U	MAA	BTLFU01	37	FILE(OR HACKSAW),USE PER STROKE	
U	MAA	BTLMXX	VARIABLE	HAMMER(LIGHT),STRIKE ONE BLOW	84
U	MAA	BTLMHXX	VARIABLE	HAMMER(MEDIUM),STRIKE ONE BLOW	
U	MAA	BTLHUX	VARIABLE	HATCHET,USE,STRIKE FIRST OR ADDITIONAL BLOW	
U	MAA	BTLKUXX	VARIABLE	KNIFE,USE,TO CUT OR SCRAPE,PER STROKE	
U	MAO	BTLMCXX	VARIABLE	MATERIAL,CUT ALONG STRAIGHTEDGE WITH KNIFE	
U	MAA	BTLP01	72	PLIERS(VISE GRIP)ADJUST	
U	MAW	BTLP02	75	PLIERS(SLIP JOINT),ADJUST	85
U	MAA	BTLP03	VARIABLE	PLIERS(CONVENTIONAL),USE TO CUT,CRIMP,OR GRIP AN OBJECT	
U	MAA	BTLP03	65	PLIERS(VISE GRIP),CLOSE ON OBJECT AND OPEN TO REMOVE	
U	MAA	BTLSA01	132	SOCKET,ATTACH TO ADAPTER AND ATTACH ADAPTER TO HANDLE	
U	MAA	BTLSCXX	VARIABLE	SCREWDRIVER,CONVENTIONAL,USE	
U	MAA	BTLS001	62	SOCKET,DISENGAGE FROM ADAPTER AND REMOVE ADAPTER FROM HANDLE	
U	MAA	BTLSRXX	VARIABLE	SCREWDRIVER,RATCHET,USE	86
U	MAA	BTLSXX	VARIABLE	SCISSORS(OR SHEARS),CUT	
U	MAF	BTLSU01	31	SCREWDRIVER,USE FOR FINAL TIGHTEN OR INITIAL LOOSEN	

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OCCUP- ATION	QUALITY	DWMSTD ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
U	MAA	BTLDXX	VARIABLE	TAP(OR DIE),CUT ONE THREAD	86
U	MAA	BTLTUX	VARIABLE	TOOL,USE(ADDITIVE FOR INSTALLATION OR REMOVAL OF SELF LOCKING FASTENERS)	
U	MAF	BTLWA01	77	WRENCH,ADJUST,MONKEY OR CRESCENT	87
U	MAA	BTLMXX	VARIABLE	HANDLE("T"),ENGAGE AND DISENGAGE OR USE TO TURN OBJECT	
U	MAA	BTMLXX	VARIABLE	BOLT(OR NUT),LOOSEN OR TIGHTEN WITH WRENCH	
U	MAO	BTLWP01	39	WRENCH(SPANNER),POSITION TO NUT AND REMOVE AFTER USE	
U	MAA	BTLWR01	26	RATCHET(AND SUCKET),ENGAGE ON AND DISENGAGE FROM PART	
U	MAA	BTLSXX	VARIABLE	HANDLE(SPEED),ATTACH TO AND REMOVE FROM PART OR TURN HANDLE ONE THREAD	
U	MAA	BTLWXX	VARIABLE	WRENCH,TORQUE,USE	88
U	MAA	BTLMXX	VARIABLE	WRENCH(STRAP),USE(ATTACH TO OBJECT)	
U	MAA	BTLMU04	32	WRENCH(STRAP),USE(FINAL TIGHTEN OR INITIAL LOOSEN)	
U	MAA	BTLMU05	75	WRENCH(STRAP),USE,(MAKE ONE QUARTER TURN)	
U	MAA	BTLMU06	39	WRENCH(STRAP),USE,(REMOVE FROM OBJECT)	
U	MAL	MTLBU01	159	BAR(PINCH),USE	
U	MAW	MTLDAX	VARIABLE	DIE(OR TAP),ASSEMBLE TO OR DISASSEMBLE FROM CHUCK OR HANDLE,HAND-HELD	89
U	MAA	MTLFLXX	VARIABLE	FASTENER(THREADED),LOOSEN WITH HAMMER OR MALLET	
U	MAO	MTLHRXX	VARIABLE	HOLE,REAM BY HAND	
U	MAL	MTLMCXX	VARIABLE	MATERIAL(CLOTH),CUT WITH SCISSORS	90
U	MAF	MTLPS01	97	PUNCH(CENTER),STRIKE	
U	MAA	MTLSC01	121	SOCKET,CHANGE,1/4,3/8,OR 1/2 INCH DRIVE WITH BALL AND SOCKET LOCK	
U	MAL	MTLSEXX	VARIABLE	STENCIL,CUT,ELECTRIC	
U	MAL	MTLSMXX	VARIABLE	STENCIL,CUT,MANUAL	
U	MAF	MTLS001	99	SNIPS,OPEN ,POSITION TO WORK,CLOSE AND PLACE ASIDE	91
U	MAO	MTLSTXX	VARIABLE	SCREW,TURN IN AND TIGHTEN OR LOOSEN AND TURN OUT WITH SCREWDRIER	
U	MAF	MTLSU01	155	SHOVEL,USE,TO MOVE LOOSE MATERIAL SUCH AS SAND OR GRAVEL	
U	MAF	MTLSU02	221	SHOVEL,USE	
U	MAW	MTLTC01	690	TUBING,CUT WITH HAND HELD TUBE CUTTER,COPPER OR ALUMINUM TUBING 1/4-1/2 INCH DIAMETER	
U	MAF	MTLTG01	69	TOOL(TWO HANDLES),GET AND ASIDE	
U	MAF	MTLT001	77	TOOL,OBTAIN FROM OPEN TOOLBOX AND ASIDE TO TOTE BOX OR BENCH TOP	92

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OCCUP- ATION	QUALITY	DMMSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
U	MAF	MTLTRO1	132	TOOL, REMOVE FROM AND RETURN TO BELT KIT	92
U	MAA	MTLWAO1	397	WRENCH (TORQUE), ADJUST INDICATOR	
U	MAA	MTLWCO1	86	WIRE, CUT WITH DIAGONAL PLIERS	
U	MAO	MTLWPO1	31	WRENCH (HEX NUT DRIVER), POSITION TO NUT, REMOVE	
U	MAA	TTLFIXX	TABLE	FASTENER (THREADED), INSTALL WITH HAND TOOL	93
U	MAA	TTLFRXX	TABLE	FASTENER (THREADED), REMOVE WITH HAND TOOL	95
U	MAA	TTLFTXX	TABLE	FASTENER (THREADED), TIGHTEN OR LOOSEN ONE THREAD, WITH END WRENCH, ALLEN WRENCH OR SIMILAR	97
U	MAI	TTLHUXX	TABLE	HAMMER, USE, STRIKE ONE BLOW	98
U	MAA	TTLPLXX	TABLE	PART, LOOSEN WITH Mallet AND REMOVE	
U	MAA	TTLSPXX	TABLE	SCREWDRIVER (SPIRAL), USE	
U	MAA	TTLWBXX	TABLE	WRENCH, USE, BOX END, OPEN END, ALLEN WRENCH OR SIMILAR	99
U	MAA	TTLWRXX	TABLE	RATCHET, USE TO TURN PART	
U	MAA	STLFIXX	TABLE	FASTENER (THREADED), INSTALL	100
U	MAA	STLFRXX	TABLE	FASTENER (THREADED), REMOVE	102
U	MAA	STLFTXX	VARIABLE	FASTENER (THREADED), TORQUE WITH SNAP TYPE TORQUE WRENCH	103
U	MAA	STLHTXX	VARIABLE	HOLE, TAP	
U	MAA	STLPPXX	VARIABLE	PUMP (PRESSURE), PUMP	104
U	MAO	STLRAO1	572	REAMER, ASSEMBLE, POSITION, DISASSEMBLE	
U	MAA	STLRFXX	VARIABLE	FITTING (ZENK), REMOVE	
U	MAF	BTWPPO1	54	WRENCH (IMPACT), POSITION TO BOLT OR NUT	
U	MAA	BTWPTXX	VARIABLE	WRENCH, TURN PART (POWER WRENCH, FREE RUNNING)	
U	MAI	MTPOPXX	VARIABLE	DRILL, POSITION FOR DRILLING, HAND HELD PORTABLE POWER DRILL	105
U	MAA	MTPFIXX	VARIABLE	FASTENER (THREADED), INSTALL WITH POWER TOOL	
U	MAA	MTPFRXX	VARIABLE	FASTENER (THREADED), REMOVE WITH POWER TOOL	
U	MAA	MTPHCXX	VARIABLE	HOLE, COUNTERSINK OR DEBURR, 1/16 INCH DEPTH AND TO 5/8 INCH DIAMETER, ALUMINUM MATERIAL	
U	MAF	MTPTOO1	240	TOOL (ELECTRIC POWER), DISCONNECT AND WIND CORD AROUND TOOL	
U	MAF	MTPTPO1	190	TOOL, PLACE IN CHUCK AND TIGHTEN	
U	MAF	MTPTRO1	120	TOOL, REMOVE FROM CHUCK	106
U	MAF	MTPTUO1	216	TOOL (ELECTRIC POWER), UNWIND CORD AND CONNECT PLUG	
U	MAA	STPFIXX	VARIABLE	FASTENER (THREADED), INSTALL WITH POWER TOOL	
U	MAA	STPFRXX	VARIABLE	FASTENER (THREADED), REMOVE WITH POWER TOOL	
U	MAA	STPTIO1	486	TOOL, INSTALL IN AND REMOVE FROM CHUCK OF PORTABLE DRILL MOTOR	

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OCCUP- ATION	QUALITY	DWMSTD ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
U	MAL	MVSPPO1	256	PART, PLACE IN AND REMOVE FROM VISE	107
U	MAA	MVSQAXX	VARIABLE	WISE(JUICK ACTING), LOOSEN OR TIGHTEN	
U	MAA	MVSRVXX	VARIABLE	WISE, ROTATE	
U	MAA	MVSTLXX		WISE, TIGHTEN OR LOUSEN BY HAND	
U	MAF	MVSTSXX	VARIABLE	TRIPPOD(WITH WISE), SET UP TO USE OR TAKE DOWN AFTER USE, EFFECTIVE NET WEIGHT TO 30 POUNDS	
U	MAF	MVSVC01	291	WISE(BENCH), OPEN AND CLOSE(1/4 INCH)	108
U	OBW	MVSVT01	173	WISE, TIGHTEN AND LOOSEN WITH WRENCH	
U	MAA	BWHCRXX	VARIABLE	CABLE, ROUTE THROUGH FRAME OPENING	
U	TUA	BWHGH01	221	GUN(SOLDER), HEAT TIP TO SOLDER TEMPERATURE	
U	MAA	BWHMO01	20	HEAT SINK, OPEN AND CLOSE	
U	MAA	BWHIS01	49	INSULATION, STRIP FROM WIRE TO ONE INCH	109
U	MAA	BWHITXX	VARIABLE	IRON(SOLDERING), TIN	
U	MAA	BWHLT01	VARIABLE	LACE, TIE CLOVE HITCH AND OVERHAND KNOT	
U	MAA	BWHLU01	30	LACING(CORD), UNWIND FROM SPOOL PER FOOT	
U	MAA	BWHRWXX	VARIABLE	WIRE, ROUTE PAST POST, PIN OR OBSTRUCTION	
U	MAW	BWMSWXX	VARIABLE	WIRE, STRAIGHTEN WITH PLIERS	110
U	MAA	BWMTLXX	VARIABLE	LEAD, TWIST ON TERMINAL	
U	MAA	BWHWBXX	VARIABLE	WIRE, BEND WITH PLIERS	
U	MAW	BWHWB03	46	WIRE, BEND TO FORM LOOP USING PLIERS	
U	MAA	BWHWB04	18	WIRE, BEND UP TO 120 DEGREES WITH HANDS	
U	MAA	BWHWD01	99	WIRE, DRESS INTO AN INSIDE CORNER	111
U	MAA	BWHWR01	20	WIRE, ROUTE IN CHANNEL OR AGAINST FRAME	
U	MAA	BWHWSXX	VARIABLE	WIRE, STRAIGHTEN BY HAND	
U	MAA	BWHWTXX	VARIABLE	WIRES, TWIST TO ROUTE THRU OPENING	
U	MAA	BWHWT03	32	WIRE, TWIST STRAND OF LEAD	
U	MAA	BWHWU01	54	WIRES-UNTWIST AFTER ROUTE THRU OPENING	112
U	MAA	MWHCLXX	VARIABLE	CABLE, LACE WITH KNOT	
U	MAA	MWHHU01	320	HARNESS, UNWRAP VINYL TAPE FROM 1-3 INCHES OF	
U	MAA	MWHHW01	2856	HARNESS, WRAP 1-3 INCHES OF HARNESS WITH 1/2 INCH VINYL TAPE-RESTRICTED	
U	MAA	MWHITXX	VARIABLE	IRON(SOLDERING), TIN BEFORE SOLDERING OR AFTER CLEANING	
U	MAA	MWHLC01	43	LEAD, CHOOSE FROM WIRE BUNDLE	112
U	MAA	MWHLD01	198	LEAD, DRESS WITH PLIERS	
U	MAZ	MWHLN01	144	LEAD(COMPONENT), MEASURE AND CUT TWO ENDS TO LENGTH	
U	MAA	MWHLN02	165	LEAD, MEASURE AND CUT TO LENGTH	

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OCCUP- ATION	QUALITY	DWNSDP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
U	MAA	MMHLS01	182	LEAD(COMPONENT),STRAIGHTEN WITH HANDS	112
U	MAA	MMHLT01	51	LEAD,TWIST STRANDED WIRE BY HAND	
U	MAA	MMHLU01	85	LACING CORD,UNWIND ONE FOOT FROM SPOOL	
U	MAA	MMHMA01	418	MARKER(E-Z CODE),APPLY	113
U	MAA	MMHSA01	202	SPAGHETTI,APPLY-MEASURE,CUT AND INSTALL	
U	MAA	MMHSS01	22	SPAGHETTI,SLIDE	
U	MAA	MMHTM01	285	TERMINAL,MOUNT TO CHASIS	
U	MAA	MMHVRXX	VARIABLE	WIRE,ROUTE THROUGH WIRES	
U	MAA	MMHVSXX	VARIABLE	WIRE,STRIP END	
U	TUA	MMHMT01	76	WIRE,TIN LEAD END	
U	MAF	MMHWU01	35	WIRE(OR SOLDER),UNROLL FROM SPOOL,SIX INCH LENGTH	114
U	MAA	BWRLXX	VARIABLE	LETTER,WRITE,LONGHAND	
U	MAA	BWRLPXX	VARIABLE	LETTER,PRINT,UPPER OR LOWER CASE	
U	MAA	BWRN001	8	INSTRUMENT(WRITING),MOVE TO NEXT WORD WHEN WRITING LONGHAND,LOWER CASE	
U	MAA	BWRN001	18	NUMBER,WRITE,PER DIGIT	
U	MAA	BWRPAXX	VARIABLE	PUNCTUATION,ANNOTATE	
U	MAJ	BWRSVXX	VARIABLE	SYMBOLS,WRITE	115
U	MAA	MMRDWXX	VARIABLE	DATE(CALENDAR),WRITE	
U	MAL	MMRSW01	224	SIGNATURE,WRITE LONGHAND,FIRST NAME,MIDDLE INITIAL,AND LAST NAME	
U	MAH	MMRWVXX	VARIABLE	WORDS,WRITE OR PRINT,SEQUENCE OF FIVE WORDS	
U	MAA	TURNXX	TABLE	NUMBER,COPY FROM SOURCE DOCUMENT	116

**DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	OWMSTOP ELEMENT	PAGE
AIRCRAFT, BOARD AND DISMOUNT	594	U	MBMAB01	7
ALIGNMENT, CHECK WITH LEVEL	120	U	BGMACO2	19
ALIGNMENT, CHECK WITH STRAIGHTEDGE	103	U	BGMACO1	19
APPLY PRESSURE	VARIABLE	U	BELAPXX	17
APRON, PUT ON AND REMOVE	VARIABLE	U	MJPAPXX	34
AREA, CLEAN WITH AIR, TO NINE SQUARE INCHES	VARIABLE	U	MCLACXX	9
AREA, INSPECT WITH LIGHT	VARIABLE	U	SITATXX	34
BAG(PAPER), OPEN, PREPARATORY TO PLACE OBJECT IN BAG	25	U	BPKB001	70
BAG(PAPER), TEAR TO OPEN	VARIABLE	U	MPKBTXX	72
BAR(LOCKING), INSTALL AND REMOVE, TOOL CABINET OR SIMILAR	170	U	MJPBT01	34
BAR(PINCH), USE	159	U	MTLBU01	88
BAR(PRY), USE	VARIABLE	U	BTLPBXX	83
BATTERY, CHECK WATER LEVEL, 12 VOLT WATER TYPE BATTERY WITH SIX CELLS	561	U	MTBC01	29
BODY, MOVE SIDeways TO NEW LOCATION WHILE SEATED	83	U	BBMBM01	6
BOLT(OR NUT), LOOSEN OR TIGHTEN WITH WRENCH	VARIABLE	U	BTLMXX	87
BOOK, OBTAIN FROM OPEN SHELF AND RETURN	VARIABLE	U	SOHBOX	68
BOOK, OPEN TO MARKED PAGE	97	U	MOHBO01	63
BOOK, REMOVE FROM AND REPLACE IN OPEN BOOKCASE	203	U	MOHBR01	63
BOW, TIE IN STRING ON OBJECT	197	U	BWFBT01	48
BOW, UNTIE	40	U	BWFBU01	48
BOX, OPEN	VARIABLE	U	MPKBOX	71
BRUSH, CLEAN IN SOLVENT, SMALL BRUSH	194	U	MCLBC01	9
BRUSH, DIP	42	U	BDPB001	16
BUTTON, DEPRESS(DOORBELL OR SIMILAR)	45	U	MACB001	2
CABLE, LACE WITH KNOT	VARIABLE	U	MWMLXX	111
CABLE, REMOVE FROM AND RETURN TO CASE, CABLE ROLLED AND STOWED IN CASE	261	U	SJPCR01	41
CABLE, REMOVE FROM AND RETURN TO CASE, CABLE WOUND ON RACK IN LID	1218	U	SJPCR02	42
CABLE, ROUTE THROUGH FRAME OPENING	VARIABLE	U	BWMCXX	108
CALIPER(VERNIER), ADJUST SLIDING HEAD, FOUR INCHES	79	U	BITCA01	25
CALIPER(VERNIER), USE TO MAKE ADDITIONAL CHECK ON INSIDE OR OUTSIDE DIMENSION	92	U	BITCU07	26
CALIPER, OPEN OR CLOSE	VARIABLE	U	BITCOXX	25
CALIPER, SET WITH SCALE	VARIABLE	U	BITCSXX	25

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OPERATION/ELEMENT DESCRIPTION	TNU VALUE	OCCUP- ATION	UNMSTOP ELEMENT	PAGE
CALIPER,USE	VARIABLE	U	BITCUXX	25
CALIPER,USE,CHECK OUTSIDE DIAMETER WITH PRE-SET SPRING CALIPER	211	U	BITCU08	26
CAN(HERMETICALLY SEALED),CLOSE OR OPEN	VARIABLE	U	MPKCCXX	72
CAN(METAL),OPEN WITH STATIONARY CRANK TYPE CAN OPENER,EMPTY CONTENTS,AND ASIDE CAN	VARIABLE	U	MPKCOXX	72
CAN,OPEN AND CLOSE,PRY TYPE LID TO SIX INCHES DIAMETER	VARIABLE	U	SPKCOXX	74
CAN,OPEN WITH STATIONARY CRANK TYPE CAN OPENER	VARIABLE	U	BPKCOXX	70
CAN,SCREW CAP ON AND OFF	VARIABLE	U	MPKCSXX	72
CAP(OR PLUG),INSTALL,PLASTIC THREADED	VARIABLE	U	MTFCIXX	81
CAP(OR PLUG),REMOVE,PLASTIC THREADED	VARIABLE	U	MTFCRXX	81
CHISEL(COLD),USE,FIRST OR ADDITIONAL BLOWS	VARIABLE	U	BTLCUXX	83
CLAMP(CLECO),INSTALL OR REMOVE	VARIABLE	U	MCPC LX	14
CLAMP(IC TYPE),INSTALL AND REMOVE	322	U	MCPCIO1	14
CLAMP(IC TYPE),TIGHTEN OR LOOSEN	75	U	MCPCIO1	14
CLAMP(SPRING),INSTALL	46	U	MCPCIO2	14
CLAMP(SPRING),INSTALL OR REMOVE,SMALL OR LARGE	VARIABLE	U	MCPSPX	15
CLAMP,INSTALL AND REMOVE	VARIABLE	U	SCPCIXX	15
CLIPBOARD,OBTAIN,AFFIX,OR REMOVE DOCUMENT AND ASIDE	VARIABLE	U	MMHCOXX	63
CLOTH,WRING TO REMOVE EXCESS FLUID	38	U	BDPCW01	16
COAT,SPRAY(AEROSOL)	VARIABLE	U	MSTCSXX	79
COMPARTMENT(DASH),OPEN AND CLOSE	102	U	MJPC002	35
COMPARTMENT(TOOL),OPEN OR CLOSE MOUNTED ON TRUCK OR SIMILAR	73	U	MJPC001	35
COMPONENT(BAYONET TYPE),INSTALL	127	U	MJPCIO1	35
COMPONENT(BAYONET TYPE),REMOVE	69	U	MJPCRO1	35
COMPOUND(SEAL),SCRAPE OFF	351	U	MCLCS01	10
CONTAINER(PLASTIC),CLOSE,SNAP-ON LID	VARIABLE	U	BPKCCXX	70
CONTAINER,DUMP PARTS	35	U	BMHCD01	62
CONTAINER,DUMP PARTS	129	U	MMHCD01	63
CONTROL(FOOT),OPERATE WITH PRESSURE	70	U	MACCO01	2
CONTROL,ADJUST,ZERO METER WITH TOOL	161	U	MITCA04	30
CONTROL,ADJUST AND OBTAIN DIAL READING	165	U	MITCA01	29
CONTROL,ADJUST KNOB/DIAL AND READ	79	U	MITCA02	29
CONTROL,ADJUST WITH SCREWDRIVER,READ OSCILLOSCOPE	209	U	MITCA03	30
CONTROLS,SET	VARIABLE	U	MACCSXX	3

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CORD(ELECTRIC),CONNECT AND DISCONNECT	VARIABLE	U	MJPCCX	35
CORD(ELECTRIC EXTENSION),UNCIL,CONNECT, DISCONNECT AND COIL	1186	U	MJPCU01	35
CORROSION,REMOVE FROM SPOT ON SURFACE	VARIABLE	U	SCLCRXX	13
COVER,REMOVE FROM PLASTIC CONTAINER,SNAP ON COVER,1-7 INCHES DIAMETER	39	U	BPKCRO1	70
COVERALLS,PUT ON AND REMOVE	1145	U	MJPCP01	35
CRANK,ENGAGE ON SPLINES	31	U	BACCE01	1
CRANK,MOVE MOTIONS	TABLE	U	TACCMXX	5
CRANK,TURN WITH CRANKING MOTION AND ALIGN	TABLE	U	TACCTXX	5
CRANK,WITH CRANKING MOTIONS	TABLE	U	TACCCXX	4
CREAM(HAND),APPLY	VARIABLE	U	SJPCAXX	41
DATE(CALENDAR),WRITE	VARIABLE	U	MWRDXX	115
DATE,CHANGE,ADJUSTABLE RUBBER DATE STAMP	126	U	MIDDC01	22
DECAL(NON-PRESSURE SENSITIVE),INSTALL	346	U	MIDDIO1	22
DECAL(PRESSURE SENSITIVE),INSTALL,TO 1.5 X 2.5 INCHES	468	U	SIDDI01	24
DECAL,REMOVE WITH TOOL	368	U	MIDDR01	22
DIAL,CLEAN WITH CLOTH	61	U	BCLDC01	8
DIE(OR TAP),ASSEMBLE TO OR DISASSEMBLE FROM CHUCK OR HANDLE,HAND-HELD	VARIABLE	U	MTLDAXX	89
DIE(OR TAP),LUBRICATE WITH OIL FROM LEVER OR DIAPHRAGM TYPE CAN	56	U	BLUDLO1	46
DIGIT(S)(MIXED NUMBER),READ & RETAIN	VARIABLE	U	BRDRXX	76
DIGIT(S),ALPHA-NUMERIC,READ & RETAIN EYE TRAVEL TO & FROM NUMBER	TABLE	U	TRDDAXX	77
DIGIT(S),NUMERIC,READ & RETAIN,EYE TRAVEL TO & FROM NUMBER	TABLE	U	TRDDNXX	77
DIMENSION,MEASURE AND MARK	TABLE	U	SLODNXX	45
DIPSTICK,WIPE WITH CLOTH	45	U	BCLDW01	8
DISENGAGE ONE OBJECT FROM ANOTHER OBJECT	VARIABLE	U	BELOEXX	17
DOCUMENT,ATTACH TO ITEM WITH RUBBER BAND	212	U	MPHDA01	69
DOCUMENT,DETACH FROM ITEM AND UNROLL,DOCUMENT SECURED WITH RUBBER BAND	139	U	MPHDD01	69
DOCUMENT,REMOVE FROM AND RETURN TO PLASTIC BAG	128	U	MPHDR02	70
DOCUMENT,REMOVE FROM BAG,UNFOLD,FOLD,AND REPLACE IN BAG	275	U	MPHDR01	70
DOOR(CABINET),CLOSE AND OPEN,SWING OR SLIDE	VARIABLE	U	MJPDCXX	36
DOOR(CABINET),CLOSE AND OPEN,UNLOCK AND LOCK	276	U	MJPDC05	36
DOOR(CABINET),CLOSE AND OPEN,SINGLE OR DOUBLE WITH LOCKING HANDLE OR KNOB	128	U	MJPDC06	36

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DOOR(CABINET),CLOSE AND OPEN,SECURED WITH PIN LATCH	349	U	MJPDC07	36
DOOR(OFFICE),UNLOCK	143	U	MOHDOU01	65
DOOR(OVERHEAD),RAISE AND LOWER,MANUALLY	463	U	MOHDOU01	65
DOOR(PASSAGE),CLOSE,SLIDING	138	U	MOHDOU10	64
DOOR(PASSAGE),OPEN,SLIDING	111	U	MOHDOU09	64
DOOR(PASSAGE),OPEN AND CLOSE WITH DOORKNOBS PUSH OR PULL REQUIRED TO OPEN DOOR	108	U	MOHDOU01	63
DOOR(PASSAGE),OPEN AND CLOSE,WITH DOORKNOBS AND CLOSER MECHANISM,PUSH REQUIRED TO OPEN DOOR	68	U	MOHDOU02	63
DOOR(PASSAGE),OPEN AND CLOSE,WITH DOORKNOB, PULL TO OPEN,WITH AUTOMATIC CLOSER	90	U	MOHDOU03	64
DOOR(PASSAGE),OPEN AND CLOSE,NO LATCH,PUSH TO OPEN,WITH AUTOMATIC DOOR CLOSER	75	U	MOHDOU04	64
DOOR(PASSAGE),OPEN AND CLOSE,NO LATCH,PULL TO OPEN,WITH AUTOMATIC DOOR CLOSER	114	U	MOHDOU05	64
DOOR(PASSAGE),OPEN AND CLOSE,QUICK RELEASE PUSH TO OPEN,WITH AUTOMATIC CLOSER	91	U	MOHDOU06	64
DOOR(PASSAGE),OPEN AND CLOSE,QUICK RELEASE, PULL TO OPEN,WITH AUTOMATIC CLOSER	127	U	MOHDOU07	64
DOOR(PASSAGE),OPEN AND CLOSE,TWO-WAY SWINGING	75	U	MOHDOU08	64
DRAWER(FILING CABINET),UNLOCK,OPEN,CLOSE,AND LOCK	492	U	SUGDOU01	62
DRAWER(FILING CABINET),UNLOCK,OPEN,CLOSE,AND LOCK	719	U	SUGDOU02	62
DRAWER(STORAGE),OPEN AND CLOSE	VARIABLE	U	MJPDOXX	36
DRAWER(TOOL BOX),OPEN AND CLOSE	30	U	MJPDOU09	37
DRILL,POSITION FOR DRILLING,HAND HELD PORTABLE POWER DRILL	VARIABLE	U	MTPDPXX	105
DRUM(STORAGE),OPEN	170	U	MPKDOU01	72
EARMUFFS,PUT ON AND REMOVE	131	U	MJPEP01	37
EDGE,MASK WITH PAPER TAPE	VARIABLE	U	MNFEMXX	49
ENVELOPE(PARTS),OPEN AND REMOVE CONTENTS	VARIABLE	U	MPKEOXX	72
ENVELOPE,OPEN,EMPTY,AND ASIDE	TABLE	U	TPKEOXX	74
ENVELOPE,OPEN BY TEARING END	VARIABLE	U	BPKEOXX	71
EXTENDED DISTANCE	7	U	BELEO01	18
EYE,FOCUS ON OBJECT	7	U	BELEF01	18
EYE,TRAVEL	VARIABLE	U	BELETXX	18
EYE,TRAVEL FROM POINT TO POINT TO INSPECT	TABLE	U	TITETXX	32
EYE TIMES,SHIFT FROM POINT TO POINT	VARIABLE	U	BITETXX	26
FASTENER(THREADED),GET(EASY)AND START(VISIBLE)	VARIABLE	U	MTFFGXX	81

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OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUPA- TION	DWMSTOP ELEMENT	PAGE
HAMMER(LIGHT), STRIKE ONE BLOW	VARIABLE	U	BTLHLXX	84
HAMMER(MEDIUM), STRIKE ONE BLOW	VARIABLE	U	BTLHMXX	84
HAMMER, USE, STRIKE ONE BLOW	TABLE	U	TTLHUXX	98
HAND, IMMERSE IN FLUID, REMOVE, AND SHAKE TO REMOVE EXCESS	40	U	BDPHIO1	16
HAND, WIPE WITH CLOTH OR PAPER TOWEL	160	U	MCLHW02	10
HANDLE("TH"), ENGAGE AND DISENGAGE OR USE TO TURN OBJECT	VARIABLE	U	BTLWHXX	87
HANDLE(SPEED), ATTACH TO AND REMOVE FROM PART OR TURN HANDLE ONE THREAD	VARIABLE	U	BTLWSXX	87
HANDS, CLEAN BY DIPPING IN FLUID CLEANER	420	U	MCLHCO1	10
HANDS, WIPE WITH CLOTH OR PAPER TOWEL	271	U	MCLHW01	10
HARNES, UNWRAP VINYL TAPE FROM 1-3 INCHES OF	320	U	MWHHU01	111
HARNES, WRAP 1-3 INCHES OF HARNES WITH 1/2 INCH VINYL TAPE-RESTRICTED	2856	U	MWHHW01	111
HAT, PUT ON AND REMOVE	VARIABLE	U	MJPHPXX	38
HATCHET, USE, STRIKE FIRST OR ADDITIONAL BLOW	VARIABLE	U	BTLHUXX	84
HEAT SINK, OPEN AND CLOSE	20	U	BWHH001	108
HOLE, COUNTERSINK OR DEBURR, 1/16 INCH DEPTH AND TO 5/8 INCH DIAMETER, ALUMINUM MATERIAL	VARIABLE	U	MTPHCXX	105
HOLE, REAM BY HAND	VARIABLE	U	MTLHRXX	89
HOLE, TAP	VARIABLE	U	STLHTXX	103
HOOK("S"), REMOVE FROM PART	42	U	MOHHR01	65
HOOK, ATTACH AND DETACH TO/FROM ITEM	197	U	MOHHA01	65
HOOK, PLACE IN PART, S-TYPE HOOK	56	U	BOHHP01	62
HORIZONTAL CHANGE(SIDESTEP OR TURN BODY)	19	U	BBMHC01	6
HOSE(AIR), CONNECT OR DISCONNECT	VARIABLE	U	MJPHCXX	38
HOSE(AIR), WIND FOR STORAGE, 25 FEET LONG	557	U	MJPHW01	38
INDICATOR(DIAL), ASSEMBLE TO MAGNETIC BASE	224	U	MJPIA01	38
INDICATOR(DIAL), ASSEMBLE TO HEIGHT GAUGE	373	U	MJPIA02	38
INDICATOR(DIAL), DISASSEMBLE FROM MAGNETIC BASE	179	U	MJPID01	38
INDICATOR(DIAL), DISASSEMBLE FROM HEIGHT GAUGE	282	U	MJPID02	38
INDICATOR(DIAL), READ	44	U	BITIRO1	27
INDICATOR(DIAL), SET	62	U	MITISO1	31
INDICATOR(DIAL), SET TO ZERO	49	U	BITISO1	27
INDICATOR(DIAL), USE TO CHECK POSITION OR SPOT	26	U	BITOI01	26
INDICATOR(DIAL), USE TO CHECK HEIGHT ON FLAT SURFACE, FIRST INCH	14	U	BITIU01	27
INDICATOR(DIAL), USE TO CHECK HEIGHT ON FLAT SURFACE	10	U	BITIU02	27

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INDICATOR(DIAL),USE TO CHECK MANDREL RUNOUT PER DIAMETER	95	U	BITMR01	27
INDICATOR,ADJUST TO WORK,MAGNETIC BASE INDICATOR	182	U	MITIA01	31
INK(OR PAINT),APPLY TO STENCIL WITH DAUBER	VARIABLE	U	MIDAIXX	22
INK(OR PAINT),APPLY TO STENCIL W/ROLLER	VARIABLE	U	MTDIAXX	23
INSTRUMENT(WRITING),MOVE TO NEXT WORD WHEN WRITING LONGHAND,LOWER CASE	8	U	BNRM001	114
INSULATION,STRIP FROM WIRE TO ONE INCH	49	U	BWHIS01	108
IRON(SOLDERING),CLEAN BY SHAKING	44	U	MCLIC01	10
IRON(SOLDERING),TIN	VARIABLE	U	BNKITXX	108
IRON(SOLDERING),TIN BEFORE SOLDERING OR AFTER CLEANING	VARIABLE	U	MWHITXX	112
ITEM,LOCATE IN COLUMN STARTS-WITH BOOK OPEN TO DESIRED PAGE AND EYES	98	U	BRDIL01	76
JACKET,PUT ON AND REMOVE	324	U	MJPJP01	38
JAR,CLOSE,LID SCREWED ON HAND TIGHT	109	U	MPKJC01	73
JAR,CLOSE,SCREW TYPE LID	62	U	BPKJC01	71
JAR,OPEN,SCREW TYPE LID	66	U	BPKJO01	71
JAR,OPEN,SCREW TYPE LID	113	U	MPKJO01	73
JAW(PARALELL),TIGHTEN OR LOOSEN	VARIABLE	U	MCPPJXX	14
KEY,INSTALL,STRAIGHT MACHINE,LOOSE FIT,NO TOOLS NEEDED	87	U	MNFKI02	50
KEY,INSTALL,STRAIGHT MACHINE,TIGHT FIT,USE OF HAMMER AND DRIFT PUNCH REQUIRED	293	U	MNFKI03	50
KEY,INSTALL,WOODRUFF WITH HAMMER AND DRIFT PUNCH	311	U	MNFKI01	50
KEY,REMOVE,STRAIGHT MACHINE,LOOSE FIT,NO TOOLS REQUIRED	38	U	MNFKR02	50
KEY,REMOVE,STRAIGHT MACHINE,HAMMER AND DRIFT PUNCH REQUIRED	258	U	MNFKR03	50
KEY,REMOVE,TAPERED MACHINE,HAMMER AND PUNCH REQUIRED	286	U	MNFKR04	50
KEY,REMOVE,WOODRUFF,WITH HAMMER AND DRIFT PUNCH	370	U	MNFKR01	50
KNIFE(POCKET),OPEN AND CLOSE	136	U	SJPKD01	42
KNIFE,USE,TO CUT OR SCRAPE,PER STROKE	VARIABLE	U	BTLKUXX	84
KNOB(CONTROL),UNLOCK AND LOCK	74	U	MACKU01	3
KNOB,DIAL SET OR ALIGN POINTER WITH TURN UP TO 180 DEGREES	VARIABLE	U	BACKDXX	1
KNOT,TIE(ROPE),BARREL HITCH,TIMBER HITCH,OR STOPPER	267	U	BNFKT09	49
KNOT,TIE(ROPE),BOWLINE	100	U	BNFKT08	49

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KNOT,TIE(ROPE),CLOVE HITCH	147	U	BNFKT07	48
KNOT,TIE(ROPE),HALF HITCH	78	U	BNFKT06	48
KNOT,TIE(ROPE),SQUARE	164	U	BNFKT10	49
KNOT,TIE(STRING),BOWLINE,USING SINGLE END OF LINE	83	U	BNFKT05	48
KNOT,TIE,(STRING),SLIP HALF HITCH,USING SINGLE END OF LINE	95	U	BNFKT03	48
KNOT,TIE,CLOVE HITCH,USING SINGLE END OF LINE	70	U	BNFKT04	48
KNOT,TIE,HALF HITCH,USING SINGLE END OF LINE	101	U	BNFKT02	48
KNOT,TIE,SQUARE,USING TWO ENDS OF STRING	215	U	BNFKT01	48
LACE,TIF CLOVE HITCH AND OVERHAND KNOT	VARIABLE	U	BMHLT01	109
LACING(CORD),UNWIND FROM SPOOL PER FOOT	30	U	BMHLU01	109
LACING CORD,UNWIND ONE FOOT FROM SPOOL	85	U	MMHLU01	112
LADDER(EXTENSION),CLIMB AND DESCEND	VARIABLE	U	MBMCLXX	7
LADDER(VERTICAL),CLIMB UP AND DOWN ONE RUNG OR STEP	VARIABLE	U	MBMLCXX	7
LADDER,MOVE TO NEW LOCATION	211	U	MJPLM01	39
LATCH,TURN TO CLOSE BOX OR CONTAINER	48	U	MNFLT01	51
LATCH,TURN TO OPEN BOX OR CONTAINER	47	U	MNFLT02	51
LEAD(COMPONENT),MEASURE AND CUT TWO ENDS TO LENGTH	144	U	MWMLM01	112
LEAD(COMPONENT),STRAIGHTEN WITH HANDS	182	U	MWMLS01	112
LEAD,CHOOSE FROM WIRE BUNDLE	43	U	MWMLC01	112
LEAD,DRESS WITH PLIERS	198	U	MWMLD01	112
LEAD,MEASURE AND CUT TO LENGTH	165	U	MWMLM02	112
LEAD,TWIST ON TERMINAL	VARIABLE	U	BMHTLXX	109
LEAD,TWIST STRANDED WIRE BY HAND	51	U	MWHLT01	112
LEG,MOVE,TO 21 INCHES	VARIABLE	U	BBMLNXX	6
LETTER,PRINT,UPPER OR LOWER CASE	VARIABLE	U	BWRLPXX	114
LETTER,WRITE,LONGHAND	VARIABLE	U	BWRLXX	114
LEVER(NON-SQUEEZE),UNLATCH OR LATCH	13	U	BACLU01	1
LEVER,ENGAGE,OR DISENGAGE	37	U	MACLE01	3
LEVER,MOVE	TABLE	U	TACLNXX	5
LEVER,SEAT TO MESH GEARS	16	U	BACLS01	1
LEVER,TURN ON AND OFF(AIR VALVE OR SIMILAR)	102	U	MACLT01	3
LEVER,UNLATCH TO DISENGAGE,SQUEEZE TYPE LATCH	19	U	BACLU02	1
LID(BOX),REMOVE	45	U	MPKLR01	73
LID,CLOSE,PRY OPEN TYPE CAN TO 6 INCHES DIAMETER	306	U	MPKLC01	73

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LID,INSTALL AND SEAL ON FIVE-GALLON CONTAINER, 16 PRY TABS	1016	U	MPKL102	73
LID,INSTALL ON CAN	160	U	MPKL101	73
LID,PRY OFF CAN TO 6-INCH DIAMETER	382	U	MPKLPO1	73
LID,REMOVE AND REPLACE,TRASH CAN OR SIMILAR TO 24 INCHES DIAMETER	VARIABLE	U	MUHLRXX	65
LID,REMOVE FROM FIVE-GALLON CONTAINER,16 PRY TABS	744	U	MPKLRO2	73
LINE,DRAW USING SQUARE	43	U	BL0LO01	43
LINE,SCRIBE,EXACT POSITION,METAL SURFACE	125	U	ML0LS13	45
LINE,SCRIBE,TO SCALE OR STRAIGHTEDGE	VARIABLE	U	BL0LSXX	43
LINE,SCRIBE TO SCALE(STRAIGHTEDGE)	VARIABLE	U	ML0LSXX	44
LOCK(LATCH),CLOSE AND LOCK	VARIABLE	U	MNFLCXX	51
LOCK(LATCH),OPEN AND MOVE ASIDE	VARIABLE	U	MNFLOXX	51
LUBRICANT,APPLY TO FITTING WITH BUTTON TYPE GUN	34	U	BLUGB01	46
LUBRICANT,APPLY TO FITTING WITH HAND OPERATED LEVER TYPE GUN(PER STROKE)	36	U	BLUGLO1	46
LUBRICANT,APPLY TO SMALL OBJECT	VARIABLE	U	SLUALXX	47
LUBRICANT,APPLY TO ZERK FITTING WITH HAND OPERATED GUN	TABLE	U	SLULAXX	47
LUBRICANT,APPLY WITH OIL CAN(PER LINEAR FOOT)	23	U	BLUOL01	46
LUBRICANT,APPLY WITH TUBE TO AREA,1 INCH X 1 INCH	26	U	BLUTA01	46
LUBRICANT,APPLY WITH TUBE TO SPOT,1/4X1/4 INCH	20	U	BLUTS01	47
MACHINE,START AND STOP WITH PUSH BUTTON OR ROTARY SWITCH	104	U	MACHS01	3
MACHINE,START OR STOP(PUSH TYPE SWITCH)	34	U	MACHS02	3
MARKER(E-Z CODE),APPLY	418	U	MWHMA01	113
MASK(FACE),PUT ON AND REMOVE,AIR FILTERING, DISPOSABLE TYPE MASK	204	U	MJPMP01	39
MATERIAL(CLOTH),CUT WITH SCISSORS	VARIABLE	U	MTLMCXX	90
MATERIAL,CUT ALONG STRAIGHTEDGE WITH KNIFE	VARIABLE	U	BTLMCXX	84
MATERIAL,MEASURE LENGTH OF	VARIABLE	U	HGMHMX	20
MICROMETER(DEPTH),USE WITH PARALLEL BARS	VARIABLE	U	SITMUX	34
MICROMETER(INSIDE),SET UP WITH TWO EXTENSIONS	1659	U	SJPMS01	43
MICROMETER(OUTSIDE),MEASURE DIMENSION AND READ	TABLE	U	TITMXX	33
MICROMETER,MEASURE DEPTH	VARIABLE	U	MITMXX	31
MICROMETER,USE	VARIABLE	U	MITMUX	31
MICROMETER,USE(REMOVE AND REPLACE EXTENSION ON INSIDE MICROMETER)	343	U	MITMU06	31

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MICROMETER,USE-CHECK OBJECTS OF DIFFERENT SIZE	427	U	NITMU04	31
MICROMETER,USE-CHECK OBJECTS OF SAME SIZE	380	U	NITMU05	31
MICROMETER,USE,CHANGE POSITION OF THIMBLE FOR MAKING CHECK OF SIZE DIFFERENT FROM PRIOR CHECK	140	U	BITMU03	28
MICROMETER,USE,CHECK INSIDE DIAMETER OR BETWEEN TWO SURFACES	265	U	NITMU07	32
MICROMETER,USE,READ SCALE	VARIABLE	U	BITMUXX	28
MICROMETER,USE,TO CHECK PART(CHANGE SETTING,BIT-MU-03,NOT NECESSARY)	74	U	BITMU05	28
MICROMETER,USE TO CHECK PART AFTER CHANGE SETTING,BIT-MU-03	22	U	BITMU04	28
NAIL,SET AND DRIVE	TABLE	U	TNFNSXX	57
NOZZLE(AEROSOL PAINT SPRAY CAN),CLEAR	67	U	MPTNC01	76
NUMBER(S),ALPHA=NUMERIC,READ AND VERIFY,EYE TRAVEL FROM DOCUMENT TO DOCUMENT	TABLE	U	TRDNAXX	77
NUMBER(S),NUMERIC,READ & VERIFY,EYE TRAVEL FROM DOCUMENT TO DOCUMENT	TABLE	U	TRDNHXX	78
NUMBER,COPY FROM SOURCE DOCUMENT	TABLE	U	TNRNCXX	116
NUMBER,READ,FIRST OR ADDITIONAL,NO EYE TRAVEL	VARIABLE	U	BRDNRXX	76
NUMBER,WRITE,PER DIGIT	18	U	BRNDO01	114
NUMBERS,MULTIPLY(READ,TRANSPOSE)	TABLE	U	TOGNMXX	61
NUT(SMALL),POSITION AND ENGAGE ON BOLT	57	U	BTFNPO2	79
NUT,POSITION ON STUD	32	U	BTFNPO1	79
NUT AND WASHER,POSITION ON STUD	VARIABLE	U	MTFNPXX	82
OBJECT(HEAVY),SLIDE ON FLOOR	590	U	MOHOS01	66
OBJECT,CLEAN,PER STROKE	TABLE	U	TCLOCXX	12
OBJECT,CLEAN WITH BRUSH,PER SQUARE FOOT	VARIABLE	U	MCLOCXX	10
OBJECT,CLEAN WITH BRUSH AND SOLVENT	88	U	MCLOC03	10
OBJECT,DIP IN VISCOUS MATERIAL SUCH AS GREASE, RED LEAD OR SIMILAR	63	U	BOPDO01	17
OBJECT,EXAMINE SURFACE CONDITION VISUALLY WITH NAKED EYE	TABLE	U	TITOEXX	33
OBJECT,GAIN CONTROL AFTER GET HANDFUL OF OBJECTS	38	U	BOHOG01	62
OBJECT,GET,PLACE TO USE,AND PLACE ASIDE	TABLE	U	TPLOGXX	75
OBJECT,GET AND PLACE	TABLE	U	TGTGXX	21
OBJECT,HANG ON HOOK	VARIABLE	U	SOHONXX	68
OBJECT,IMMERSE IN LIQUID OR PASTE	TABLE	U	TDPOIXX	17
OBJECT,OBTAIN	TABLE	U	TGTOOXX	21
OBJECT,PENCIL,GET FROM SHIRT POCKET	65	U	MOHOG01	66

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OBJECT, PICK UP AND SET DOWN	VARIABLE	U	MOHPOXX	66
OBJECT, PLACE IN SHIRT POCKET, SUCH AS PENCIL, SCRIBE, OR SCALE	73	U	MOHOP01	66
OBJECT, PLACE WITH A COMBINATION OF MOVE AND/OR POSITION MOTIONS USING THE HAND(S) OR FINGERS	TABLE	U	TPLOPXX	75
OBJECT, REPOSITION AT WORKPLACE BY SLIDING OR LIFTING AND TURNING, OBJECT TO 50 POUNDS WEIGHT, TURN TO 180 DEGREES	TABLE	U	TOHORXX	67
OBJECT, START MOVEMENT BY PUSHING	42	U	MMHOS01	47
OBJECT, START MOVING BY PUSHING(WHEELED OBJECT)	30	U	BMHOS01	47
OBJECT, TURN ABOUT HORIZONTAL OR VERTICAL AXIS TO 180 DEGREES, OBJECT ATTACHED TO STAND OR FIXTURE, EFFECTIVE NET RESISTANCE(ENR) TO 50 POUNDS	TABLE	U	TOHOTXX	67
OBJECT, UNWRAP	178	U	MPKOU01	74
OBJECT, WASH	VARIABLE	U	MCLOWXX	10
OIL, APPLY TO SPOT WITH DIAPHRAGM TYPE OIL CAN	15	U	BLUOS02	46
OIL, APPLY TO SPOT WITH TRIGGER TYPE OIL CAN	18	U	BLUOS01	46
PAGE, FIND, IN MANUAL	214	U	MRDPF01	76
PAINT(GREASE OR VARNISH), APPLY WITH BRUSH	63	U	BPAPA01	68
PAINT, APPLY TO IDENTIFICATION PLATE	609	U	MIDPA01	23
PAINT, APPLY WITH BRUSH	VARIABLE	U	SPAPAXX	69
PAINT, APPLY WITH BRUSH ATTACHED TO BOTTLE CAP	VARIABLE	U	SPAAPXX	69
PAINT, SPRAY	VARIABLE	U	BPAPSXX	69
PAINT, SPRAY	VARIABLE	U	MPAPSXX	69
PAPER(STENCIL), CUT ON PAPER CUTTER	VARIABLE	U	MJPPCXX	39
PART, CLEAN(BY HAND) WITH SOLVENT	TABLE	U	TCLPCXX	12
PART, CLEAN WITH AIR	VARIABLE	U	MCLPCXX	11
PART, CLEAN WITH RAG	VARIABLE	U	BCLPCXX	9
PART, HANG WITH "S" HOOK	VARIABLE	U	BDHPHXX	62
PART, IMMERSE AND SHAKE	VARIABLE	U	BDPPIXX	17
PART, INSTALL INTO HOLE OR ONTO SHAFT	TABLE	U	TDAPIXX	16
PART, LOOSEN WITH Mallet AND REMOVE	TABLE	U	TTLPLXX	98
PART, PICK UP AND SET DOWN	180	U	MOHPP01	66
PART, PLACE IN AND REMOVE FROM VISE	256	U	MVSPPO1	107
PART, REMOVE FROM MATING PART BY PUSHING WITH THUMBS	95	U	MDAPR08	16
PART, REMOVE FROM MATING PART WITH FINGER	107	U	MDAPR09	16
PART, REMOVE FROM MOUNTING LOCATION OR MATING PART	VARIABLE	U	MDAPRXX	15
PART, REMOVE FROM MOUNTING LOCATION OR MATING PART, TIGHT FITTING PARTS	156	U	MDAPR07	15

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
NOUN/VERB INDEX

OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	DWNS- TOP ELEMENT	PAGE
PART, REMOVE WITH PRY TOOL	124	U	SOHPR01	68
PARTS, SEPARATE BY PULLING	VARIABLE	U	SOHPSXX	63
PASTE, APPLY WITH BRUSH	173	U	MNFPA01	51
PEDAL, DEPRESS	33	U	BACPD01	1
PIN, INSTALL, VARIOUS TYPES	VARIABLE	U	MNFP1XX	52
PIN, PREPARE TO PRESS (INSTALLATION)	107	U	MNFPP02	52
PIN, PREPARE TO PRESS (REMOVAL)	40	U	MNFPP01	52
PIN, REMOVE, VARIOUS TYPES	VARIABLE	U	MNFPRXX	53
PLATE, MASK EDGES WITH TAPE PRIOR TO PAINTING	VARIABLE	U	SJPPMXX	43
PLIERS (CONVENTIONAL), USE TO CUT, CRIMP, OR GRIP AN OBJECT	VARIABLE	U	BTLPCKX	85
PLIERS (SLIP JOINT), ADJUST	75	U	BTLP002	85
PLIERS (VISE GRIP), CLOSE ON OBJECT AND OPEN TO REMOVE	65	U	BTLP003	85
PLIERS (VISE GRIP) ADJUST	72	U	BTLP001	84
PLUG (OR CAP), INSTALL, NON-THREADED PLASTIC	93	U	MNFIP01	49
PLUG (OR CAP), REMOVE, NON-THREADED PLASTIC, USING A SCREWDRIVER	VARIABLE	U	MNFRPXX	53
PLUG, INSERT IN AND REMOVE FROM RECEPTACLE	112	U	MJPP101	39
PLUG, PUT IN AND REMOVE FROM EAR	685	U	MJPPP01	39
PLYWOOD, MANHANDLE	VARIABLE	U	SOHPMXX	68
POINT, MARK	50	U	BLOPM01	44
POINT, MARK WITH PENCIL	188	U	MLOPM01	45
POSITION, CHANGE	TABLE	U	TBNPCXX	8
PRESS (ARBOR), ACTUATE TO INSTALL OR REMOVE PIN OR CYLINDRICAL PART	TABLE	U	TNFPAXX	58
PUMP (PRESSURE), PUMP	VARIABLE	U	STLPPXX	104
PUNCH (CENTER), STRIKE	97	U	MTLPS01	90
PUNCTUATION, ANNOTATE	VARIABLE	U	BWRPAXX	114
RAG, GET FROM COVERED CAN	137	U	MJPRG01	39
RATCHET (AND SOCKET), ENGAGE ON AND DISENGAGE FROM PART	26	U	BTLMR01	87
RATCHET, USE TO TURN PART	TABLE	U	TTLMRXX	99
REAMER, ASSEMBLE, POSITION, DISASSEMBLE	572	U	STLRA01	104
REGRASP	6	U	BELRG01	18
RETAINER (TRU-ARC), INSTALL OR REMOVE	VARIABLE	U	MNFR1XX	54
RETAINER, REMOVE, RING, SPRING, LOCKWIRE OR FLAT STEEL, USING TOOLS	865	U	MNFR002	53
RETAINER, REMOVE, SNAP ON CLIP TYPE, USING PLIERS	146	U	MNFR003	53

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
NOUN/VERB INDEX

OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	DWMSTOP ELEMENT	PAGE
RETAINER, REMOVE, SNAP RING, INTERNAL OR EXTERNAL USING SNAP RING PLIERS	136	U	MNFR001	53
RING(SNAP), INSTALL, INTERNAL OR EXTERNAL, UP TO ONE INCH FROM END OF PART USING SPECIAL SNAP RING PLIERS	271	U	MNFR101	53
ROD, EXAMINE VISUALLY WITH NAKED EYE	VARIABLE	U	BITREXX	29
RULE(SIX-FOOT FOLDING), USE	VARIABLE	U	MGMRUXX	20
RULE, READ TO COMPARE MARK ALIGNMENT	22	U	BGMRR01	20
SCALE, USE	VARIABLE	U	MGMSUXX	20
SCISSORS(OR SHEARS), CUT	VARIABLE	U	BTLSXX	86
SCREW, TURN IN AND TIGHTEN OR LOOSEN AND TURN OUT WITH SCREWDRIIVER	VARIABLE	U	MTLSTXX	91
SCREWDRIIVER(SPIRAL), USE	TABLE	U	TTLSPXX	98
SCREWDRIIVER, CONVENTIONAL, USE	VARIABLE	U	BTLSXX	85
SCREWDRIIVER, RATCHET, USE	VARIABLE	U	BTLSRXX	86
SCREWDRIIVER, USE FOR FINAL TIGHTEN OR INITIAL LOOSEN	31	U	BTLSU01	86
SEATBELT, FASTEN AND UNFASTEN	177	U	MEVSF01	19
SHEET(S), SCAN FOR FAMILIAR REFERENCE POINT(S), LETTER SIZE SHEETS	TABLE	U	TRDSSXX	78
SHOVEL, USE	221	U	MTLSU02	91
SHOVEL, USE, TO MOVE LOOSE MATERIAL SUCH AS SAND OR GRAVEL	155	U	MTLSU01	91
SIGNATURE, WRITE LONGHAND, FIRST NAME, MIDDLE INITIAL, AND LAST NAME	224	U	MWRSW01	115
SIT AND STAND	VARIABLE	U	BBMSSXX	6
SMOCK(TIE TYPE), PUT ON AND REMOVE	879	U	MJPSP01	40
SNIPS, OPEN, POSITION TO WORK, CLOSE AND PLACE ASIDE	99	U	MTLS001	91
SOCKET, ATTACH TO ADAPTER AND ATTACH ADAPTER TO HANDLE	132	U	BTLSA01	85
SOCKET, CHANGE, 1/4, 3/8, OR 1/2 INCH DRIVE WITH BALL AND SOCKET LOCK	121	U	MTLSC01	90
SOCKET, DISENGAGE FROM ADAPTER AND REMOVE ADAPTER FROM HANDLE	62	U	BTLS001	85
SPAGHETTI, APPLY-MEASURE, CUT AND INSTALL	202	U	MWMSA01	113
SPAGHETTI, SLIDE	22	U	MWMS01	113
SPOT, CLEAN ON FLAT OR IRREGULAR SURFACE WITH PICK AND AIR	VARIABLE	U	SCLCSXX	13
SQUARE, ALIGN TO MARK	44	U	BGMSA01	20
SQUARE, USE(PART IN HAND)	139	U	BGMSU01	20
SQUARE, USE(PART ON BENCH)	216	U	BGMSU02	20
STAMP(GANG), SET UP(10 MARKERS)	2800	U	MIDSS01	23

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
NOUN/VERB INDEX

OPERATION/ELEMENT DESCRIPTION	TNU VALUE	OCCUP- ATION	OWNSTDP ELEMENT	PAGE
STAMP(METAL), STRIKE WITH HAMMER	65	U	NIDSS01	22
STAMP(RUBBER), APPLY	VARIABLE	U	NIDASXX	22
STAPLE, INSTALL WITH PLIER GRIP STAPLER	51	U	MNFS101	54
STAPLE, REMOVE, 3/8 OR 1/2 INCH, USING PLIER TYPE STAPLE REMOVER	86	U	MNFSR01	54
STENCIL, AFFIX ON ROLL STAMP, TEST AND REMOVE	219	U	MJPSA01	39
STENCIL, APPLY, PAINT, AND REMOVE	1416	U	SIDSA01	24
STENCIL, APPLY WITH BLOCK STAMP	94	U	MIDSA01	23
STENCIL, CUT, ELECTRIC	VARIABLE	U	MTLSEXX	90
STENCIL, CUT, MANUAL	VARIABLE	U	MTLSNXX	90
STENCIL, POSITION TO SURFACE	68	U	MIDSP01	23
STEPLADDER, OBTAIN FROM FLOOR, SET UP, TAKE DOWN, AND ASIDE TO FLOOR, LADDER TO 12 FEET TALL	772	U	MJPS001	40
STRAIGHTEDGE, ALIGN, TO POINTS OR LINE	189	U	BLOSA01	44
STRAIGHTEDGE, CLAMP TO PART WITH THREE C-CLAMPS	994	U	SJPSC01	43
STRING, CUT AND OPEN BAG	158	U	MPKSC01	74
SURFACE(LINEAR), LUBRICATE WITH BRUSH, CLOTH, FINGER, OR STICK	VARIABLE	U	BLUBLXX	45
SURFACE(SPOT), LUBRICATE WITH BRUSH, CLOTH, FINGER, OR STICK	VARIABLE	U	BLUBSXX	46
SURFACE, CLEAN, WITH BRUSH, MEDIUM RESISTANCE	VARIABLE	U	MCLSCXX	11
SURFACE, CLEAN WITH AIR	160	U	BCLSC06	9
SURFACE, CLEAN WITH SANDPAPER	1584	U	MCLSC03	11
SURFACE, CLEAN WITH SCRAPER		U	BCLSCXX	9
SURFACE, CLEAN WITH SOLVENT AND CLOTH	VARIABLE	U	SCLSCXX	13
SURFACE, CLEAN WITH WIRE BRUSH	476	U	BCLSC05	9
SURFACE, CLEAN WITH WIRE BRUSH, EMERY CLOTH AND RAG-PER FOUR LINEAR INCHES	334	U	MCLSC04	11
SURFACE, SCRAPE TO CLEAN	VARIABLE	U	MCLSSXX	11
SURFACE, WIPE WITH CLOTH	VARIABLE	U	MCLSWXX	11
SURFACE, WIPE WITH WET CLOTH	VARIABLE	U	SCLSWXX	14
SWITCH, PUSH TO TURN ON OR OFF	VARIABLE	U	BACSPXX	1
SWITCH, TURN	VARIABLE	U	BACSTXX	2
SWITCHES, OPERATE, CONTROL PANEL	VARIABLE	U	MACSOXX	3
SYMBOLS, WRITE	VARIABLE	U	BWRSWXX	115
TAG(OR ENVELOPE), ATTACH TO OBJECT WITH WIRE (TWISTED)	271	U	MIDTA05	24
TAG, ATTACH STRING	436	U	MIDTA04	24
TAG, ATTACH TO OBJECT, WITH STRING(TIED)	239	U	MIDTA01	23

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
NOUN/VERB INDEX

OPERATION/ELEMENT DESCRIPTION	THU VALUF	OCCUP- ATION	OWNSTDP ELFMENT	PAGE
TAG, ATTACH TO OBJECT BY FORMING SLIP LOOP IN STRING	249	U	MIDTA03	23
TAG, ATTACH TO OBJECT WITH STRING (TAG PULLED THROUGH LOOP)	185	U	MIDTA02	23
TAG, ATTACH TO OBJECT WITH WIRE (LOOPED AND TWISTED)	317	U	MIDTA06	24
TAG, ATTACH WIRE	356	U	MIDTA07	24
TAG, REMOVE FROM OBJECT	VARIABLE	U	MIDTRXX	24
TAP (OR DIE), CUT ONE THREAD	VARIABLE	U	BTLDXX	86
TAPE (ADHESIVE), ATTACH TO DESIRED POSITION	VARIABLE	U	MNFTAXX	54
TAPE (MASKING), REMOVE	191	U	MNFTK03	55
TAPE (PLASTIC), CUT PIECE FROM ROLL	VARIABLE	U	SNFTCXX	61
TAPE, ATTACH TO PART AND WRITE IDENTIFICATION ON TAPE	640	U	SIOTA01	25
TAPE, CUT TO OPEN BOX, TAPE ON TWO SIDES AND MIDDLE OF BOX TOP	TABLE	U	TPKTCXX	74
TAPE, CUT WITH KNIFE TO OPEN PACKAGE, BOX, ETC.	VARIABLE	U	BPKTCXX	71
TAPE, GET FROM DISPENSER, 6 INCH LENGTH OF TAPE	65	U	MNFTG01	54
TAPE, REMOVE FROM OBJECT	97	U	MNFTRO2	55
TAPE, REMOVE FROM ROLL	167	U	MNFTRO1	55
TAPE, TEAR FROM LOOSE ROLL DISPENSER	VARIABLE	U	MNFTTXX	55
TERMINAL, MOUNT TO CHASSIS	285	U	MWMTM01	113
TIME, OBSERVE	27	U	BELT001	18
TOOL (ELECTRIC POWER), DISCONNECT AND WIND CORD AROUND TOOL	240	U	MTPTD01	105
TOOL (ELECTRIC POWER), UNWIND CORD AND CONNECT PLUG	216	U	MTPTU01	106
TOOL (TWO HANDLES), GET AND ASIDE	69	U	MTLTG01	91
TOOL, GET FROM AND RETURN TO TOOL DRAWER	VARIABLE	U	MJPTGXX	40
TOOL, INSTALL IN AND REMOVE FROM CHUCK OF PORTABLE DRILL MOTOR	486	U	STPTI01	106
TOOL, OBTAIN FROM OPEN TOOLBOX AND ASIDE TO TOTE BOX OR BENCH TOP	77	U	MTLT001	92
TOOL, PLACE IN CHUCK AND TIGHTEN	190	U	MTPTP01	105
TOOL, REMOVE, FROM AND RETURN TO BELT KIT	132	U	MTLTRO1	92
TOOL, REMOVE FROM CHUCK	120	U	MTPTRO1	106
TOOL, START (DRILL OR SIMILAR WITH TRIGGER SWITCH)	22	U	MACTS01	4
TOOL, USE (ADDITIVE FOR INSTALLATION OR REMOVAL OF SELF LOCKING FASTENERS)	VARIABLE	U	BTLTUXX	86
TOOLBOX (MACHINIST), OPEN AND CLOSE	VARIABLE	U	MJPTOXX	40
TOOLBOX, OPEN AND CLOSE, STORAGE TYPE 2.5X5X1.5 FEET	195	U	MJPT003	40

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
NOUN/VERB INDEX

OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	DNMSTDP ELEMENT	PAGE
TOOLBOX, OPEN AND CLOSE LID	70	U	MJPT004	40
TOOLBOX, UNLOCK, OPEN, CLOSE, AND LOCK	158	U	MJPTU01	41
TORCH(PORTABLE PROPANE), ASSEMBLE/DISASSEMBLE	VARIABLE	U	SJPTAXX	43
TRIPOD(WITH VISE), SET UP TO USE OR TAKE DOWN AFTER USE, EFFECTIVE NET WEIGHT TO 30 POUNDS	VARIABLE	U	MVSTSXX	107
TRUCK(PICKUP), BOARD AND DISMOUNT BACK END	701	U	MBMT801	7
TRUCK, MOUNT AND DISMOUNT	521	U	MEVTN01	19
TRUCK, START AND STOP	395	U	MEVTS01	19
TUBING, CUT WITH HAND HELD TUBE CUTTER, COPPER OR ALUMINUM TUBING 1/4-1/2 INCH DIAMETER	690	U	MTLTC01	91
TURN LOCK, FASTEN OR UNFASTEN(DZUS, CAM LOCK, ETC.)	VARIABLE	U	MNFTFX	54
TURN WRIST, SHIFT GRASP AND TURN, WITH OR WITHOUT PRESSURE	VARIABLE	U	BELTSXX	18
TURN WRIST, TURN ONLY, WITH OR WITHOUT PRESSURE	VARIABLE	U	BELTWXX	18
VALVE(STEM TYPE), OPEN OR CLOSE WITH ONE HAND	VARIABLE	U	BACVSXX	2
VALVE, OPEN AND CLOSE	VARIABLE	U	MACVCXX	4
VALVE, OPEN OR CLOSE	VARIABLE	U	MACVOXX	4
VALVE, OPEN OR CLOSE	36	U	MACVO03	4
VALVE, PETCOCK, OPEN OR CLOSE	22	U	BACVP01	2
VEHICLE, TRAVEL	VARIABLE	U	BEVVTXX	19
VERTICAL CHANGE	VARIABLE	U	BBMVCXX	7
WISE(BENCH), OPEN AND CLOSE(1/4 INCH)	291	U	MVSVC01	107
WISE(QUICK ACTING), LOOSEN OR TIGHTEN	VARIABLE	U	MVSQAXX	107
WISE, ROTATE	VARIABLE	U	MVSRVXX	107
WISE, TIGHTEN AND LOOSEN WITH WRENCH	173	U	MVSVT01	107
WISE, TIGHTEN OR LOOSEN BY HAND		U	MVSTLXX	107
WALK, OBSTRUCTED, PER PACE	17	U	BBMW001	7
WALK, UNOBSTRUCTED	VARIABLE	U	BBMWUXX	7
WASHER, ALIGN TO NUT BEFORE STARTING TO POSITION ON BOLT/SCREW	24	U	BTFWA01	80
WASHER, PLACE IN ALIGNMENT WITH NUT PRIOR TO STARTING NUT ON THREADS	62	U	MTFWP02	82
WASHER, PLACE ON BOLT OR SCREW	73	U	MTFWP01	82
WASHER, PLACE ON SCREW OR BOLT	VARIABLE	U	BTFWPXX	80
WEIGHT FACTOR, FIRST AND ADDITIONAL	TABLE	U	TELWFX	19
WHEEL, JOG OR BUMP FOR FINAL SETTING	18	U	BACWJ01	2
WHEEL, MOVE RIM	TABLE	U	TACWMXX	5
WHEEL, POSITION TO SET DIAL OR POINTER	VARIABLE	U	BACWPXX	2
WHEEL, SHIFT GRASP AND TURN 1/3 REVOLUTION	TABLE	U	TACWSXX	6

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
NOUN/VERA INDEX

OPERATION/ELEMENT DESCRIPTION	TMO VALUE	OCCUP- ATION	DWMSTDP ELEMENT	PAGE
WHEELBARROW, PICK UP HANDLES AND PUT DOWN	160	U	BMHWP01	47
WIRE (OR SOLDER), UNROLL FROM SPOOL, SIX INCH LENGTH	35	U	MWHWU01	114
WIRE (SAFETY), CUT OFF EXCESS AND BEND END OVER, TWISTED SINGLE STRAND TO .0625 INCH DIAMETER	94	U	MNFWC01	55
WIRE (SAFETY), INSERT THROUGH HOLE	VARIABLE	U	MNFWIXX	55
WIRE (SAFETY), INSTALL, TWO-STRAND TWISTED BETWEEN UNOBSTRUCTED ANCHORS, WIRE TO .0625 INCH DIAMETER	TABLE	U	TNFWIXX	60
WIRE (SAFETY), INSTALL USING SAFETY WIRE TWISTING PLIERS	VARIABLE	U	MNFISXX	50
WIRE (SAFETY), REMOVE, DOUBLE STRAND, TWISTED, FIRST STATION	270	U	MNFWR02	56
WIRE (SAFETY), REMOVE, DOUBLE STRAND, TWISTED ADDITIONAL STATION UP TO 6 INCHES APART	225	U	MNFWR03	56
WIRE (SAFETY), REMOVE FROM FIRST STATION, SINGLE STRAND	184	U	MNFWR01	56
WIRE (SAFETY), SECURE TO ANCHOR STATION WITH ONE TWIST BY HAND	VARIABLE	U	MNFWSEX	56
WIRE (SAFETY), TWIST BETWEEN ANCHORS WITH SAFETY WIRE PLIERS, WIRE TO .0625 INCH DIAMETER	VARIABLE	U	MNFWTXX	57
WIRE (SAFETY-CONTINUOUS), INSTALL	VARIABLE	U	SNFWIXX	61
WIRE (SAFETY-CONTINUOUS), REMOVE	VARIABLE	U	SNFWRXX	61
WIRE, ATTACH TO HOOK, SINGLE STRAND WIRE	167	U	MJPWA01	41
WIRE, ATTACH TO LARGE PART	83	U	MJPWA03	41
WIRE, ATTACH TO PART	110	U	MJPWA02	41
WIRE, BEND TO FORM LOOP USING PLIERS	46	U	BWHWB03	110
WIRE, BEND UP TO 120 DEGREES WITH HANDS	18	U	BWHWB04	110
WIRE, BEND WITH PLIERS	VARIABLE	U	BWHWRXX	109
WIRE, CUT WITH DIAGONAL PLIERS	86	U	MTLWC01	92
WIRE, DRESS INTO AN INSIDE CORNER	99	U	BWHWD01	110
WIRE, EXAMINE VISUALLY, SAFETY, TWISTED	VARIABLE	U	BITWEXX	29
WIRE, MEASURE FOR GAGE	185	U	MITWM01	32
WIRE, OBTAIN FROM ROLL AND STRAIGHTEN END	VARIABLE	U	MNFWOXX	56
WIRE, PLACE THROUGH HOLE IN OBJECT	41	U	MOHWP01	66
WIRE, ROUTE IN CHANNEL OR AGAINST FRAME	20	U	BWHWR01	110
WIRE, ROUTE PAST POST, PIN OR OBSTRUCTION	VARIABLE	U	BWHWRXX	109
WIRE, ROUTE THROUGH WIRES	VARIABLE	U	MWHWRXX	113
WIRE, STRAIGHTEN BY HAND	VARIABLE	U	BWHWSXX	110
WIRE, STRAIGHTEN WITH PLIERS	VARIABLE	U	BWHWSXX	109
WIRE, STRIP END	VARIABLE	U	MWHWSXX	113

OFFENSE WORK MEASUREMENT STANDARD TIME DATA
NOUN/VERB INDEX

OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	DWMSTOP ELEMENT	PAGE
WIRE,TIN LEAD END	76	U	MWHWT01	113
WIRE,TWIST STRAND UP LEAD	32	U	BWHWT03	111
WIRES-UNTWIST AFTER ROUTE THRU OPENING	54	U	BWHWU01	111
WIRES,TWIST TO ROUTE THRU OPENING	VARIABLE	U	BWHWTXX	111
WORD(SEQUENCE),READ,PER WORD	5	U	BROWS01	76
WORD,READ,INDIVIDUAL WORD,ALPHA NUMERIC,OR NUMBER TO TRANSPOSE	7	U	BROWI01	76
WORDS,WRITE OR PRINT,SEQUENCE OF FIVE WORDS	VARIABLE	U	MWRWXX	115
WRENCH(HEX NUT DRIVER),POSITION TO NUT,REMOVE	31	U	MTLWP01	92
WRENCH(IMPACT),POSITION TO BOLT OR NUT	54	U	BTPWP01	104
WRENCH(SPANNER),POSITION TO NUT AND REMOVE AFTER USE	39	U	BTLPW01	87
WRENCH(STRAP),USE(ATTACH TO OBJECT)	VARIABLE	U	BTLMUXX	88
WRENCH(STRAP),USE(FINAL TIGHTEN OR INITIAL LOOSEN)	32	U	BTLMU04	88
WRENCH(STRAP),USE,(MAKE ONE QUARTER TURN)	75	U	BTLMU05	88
WRENCH(STRAP),USE,(REMOVE FROM OBJECT)	39	U	BTLMU06	88
WRENCH(TORQUE),ADJUST INDICATOR	397	U	MTLWA01	92
WRENCH,ADJUST,MONKEY OR CRESCENT	77	U	BTLWA01	87
WRENCH,TORQUE,USE	VARIABLE	U	BTLWTXX	88
WRENCH,TURN PART(POWER WRENCH,FREE RUNNING)	VARIABLE	U	BTPWTXX	104
WRENCH,USE,BOX END,OPEN END,ALLEN WRENCH OR SIMILAR	TABLE	U	TTLWBXX	99

**DEFENSE WORK MEASUREMENT STANDARD TIME DATA PROGRAM
(DWMSTDP)**

PART TWO - UNIVERSAL STANDARD TIME DATA

SECTION II - DWMSTDP ELEMENT LISTING

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DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	U	MAA	BACCE01	BACCE01	31	CRANK, ENGAGE ON SPLINES STARTS-WITH HANDS ON CRANK INCLUDES-ALL MOTIONS NECESSARY TO TURN CRANK TO ALIGN SPLINES AND PUSH CRANK UNTO SPLINES ENDS-WITH HANDS ON CRANK READY TO TURN
AE	U	MAW	FINFLO1	BACFT01	36	FLASHLIGHT, TURN ON AND OFF STARTS-WITH FLASHLIGHT IN HAND INCLUDES-ALL MOTIONS NECESSARY TO TURN SWITCH ON, AIM FLASHLIGHT, AND TURN SWITCH OFF ENDS-WITH FLASHLIGHT IN HAND CONDITION-NO TIME FOR INSPECTION INCLUDED
FFD	U	MAA	BACKDXX	BACKDXX VARIABLE		KNOB, DIAL SET OR ALIGN POINTER WITH TURN UP TO 180 DEGREES STARTS-WITH HAND ON DIAL KNOB INCLUDES-ALL MOTIONS NECESSARY TO TURN KNOB TO ALIGN POINTER, HAIRLINE, OR OTHER INDICATOR ENDS-WITH SETTING COMPLETED AND HAND ON KNOB
				13		CASE 01 SET DIAL TO LOOSE TOLERANCE-1/4 TO 1/16 INCH
				24		02 SET DIAL TO CLOSE TOLERANCE-1/16 TO 1/64 INCH
				50		03 SET DIAL TO EXACT TOLERANCE-1/64 INCH OR LESS
FFD	U	MAA	BACLS01	BACLS01	16	LEVER, SEAT TO MESH GEARS STARTS-WITH HAND ON LEVER AT END OF MOVE INCLUDES-MOVE AND APPLY PRESSURE TO LEVER TO MESH GEARS ENDS-WITH HAND ON LEVER CONDITION-RESISTANCE 2.5 POUNDS OR LESS EFFECTIVE NET WEIGHT
MAA	U	MAA	BACLU01	BACLU01	13	LEVER(NON-SQUEEZE), UNLATCH OR LATCH STARTS-WITH HAND ON LATCH INCLUDES-ALL MOTIONS NECESSARY TO UNLATCH OR LATCH A NON-SQUEEZE TYPE LATCH FOR THE PURPOSE OF DISENGAGING OR ENGAGING LEVER ENDS-WITH HAND ON LEVER
FFD	U	MAA	BACLD02	BACLU02	19	LEVER, UNLATCH TO DISENGAGE, SQUEEZE TYPE LATCH STARTS-WITH HAND ON LEVER INCLUDES-ALL MOTIONS NECESSARY TO RELEASE LATCH PREPARATORY TO MOVING LEVER ENDS-WITH HAND ON LEVER
AF	U	MAO	MAOC001	BACP001	33	PEDAL, DEPRESS STARTS-WITH MOVE FOOT TO PEDAL INCLUDES-ALL MOTIONS NECESSARY TO UTILIZE PRESSURE TO DEPRESS A PEDAL ENDS-WITH MOVEMENT OF THE FOOT AWAY FROM THE PEDAL CONDITION-LEG MOTION TO NINE INCHES
MAA	U	MAA	BACSPXX	BACSPXX VARIABLE		SWITCH, PUSH TO TURN ON OR OFF STARTS-WITH FINGER IN CONTACT WITH SWITCH INCLUDES-MOTIONS NECESSARY TO PUSH SWITCH TO TURN ON OR OFF ENDS-WITH FINGER IN CONTACT WITH SWITCH
				2		CASE 01 UP TO 1 INCH TRAVEL, TO 2.5 POUNDS RESISTANCE(NO PRESSURE)
				3		02 1-2 INCHES TRAVEL, TO 2.5 POUNDS RESISTANCE(NO PRESSURE)
				13		03 UP TO 2 INCHES TRAVEL, 2.5-35 POUNDS RESISTANCE(WITH PRESSURE)

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTD ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
MAA	U	MAA	BACSTXX	BACSTXX	VARIABLE	SWITCH,TURN STARTS-WITH HAND OR FINGERS ON SWITCH INCLUDES-ALL MOTIONS NECESSARY TO TURN SWITCH ENDS-WITH HAND OR FINGERS ON SWITCH 3 CASE 01 FINGER MOVE,TURN TO 180 DEGREES, RESISTANCE TO 2.5 POUNDS(NO PRESSURE) 5 02 WRIST TURN TO 180 DEGREES,RESISTANCE TO 2.0 POUNDS(NO PRESSURE) 19 03 WRIST TURN TO 180 DEGREES,RESISTANCE OVER 2.0 POUNDS(WITH PRESSURE)
FFD	U	MAA	BACVP01	BACVP01	22	VALVE,PETCOCK,OPEN OR CLOSE STARTS-WITH HAND ON VALVE INCLUDES-ALL MOTIONS NECESSARY TO OPEN OR CLOSE PETCOCK VALVE UP TO 180 DEGREES ENDS-WITH HAND ON VALVE CONDITION-APPLICABLE TO VALVE WITH RESISTANCE TO 35 POUNDS EFFECTIVE NET WEIGHT
FFD	U	MAA	BACVSXX	BACVSXX	VARIABLE	VALVE(STEM TYPE),OPEN OR CLOSE WITH ONE HAND STARTS-WITH HAND ON VALVE KNOB INCLUDES-ALL MOTIONS NECESSARY TO TURN VALVE ONE REVOLUTION ENDS-WITH HAND ON KNOB CONDITION-KNOB DIAMETER 4 INCHES OR LESS 42 CASE 01 CLOSE VALVE ONE REVOLUTION AND FINAL TIGHTEN 53 02 LOOSEN VALVE AND TURN FIRST REVOLUTION OR TURN ADDITIONAL REVOLUTION TO OPEN OR CLOSE
FFD	U	MAA	BACWJ01	BACWJ01	18	WHEEL,JOG OR BUMP FOR FINAL SETTING STARTS-WITH BOTH HANDS ON WHEEL INCLUDES-ALL MOTIONS NECESSARY TO REACH BACK AND STRIKE OTHER HAND ON WHEEL OR CRANK HANDLE ONCE ENDS-WITH HANDS ON WHEEL
FFD	U	MAA	BACWPXX	BACWPXX	VARIABLE	WHEEL,POSITION TO SET DIAL OR POINTER STARTS-WITH HAND ON WHEEL INCLUDES-ALL MOTIONS NECESSARY TO REGRASP WHEEL AND MOVE TO ADJUST DIAL OR POINTER ENDS-WITH HANDS ON WHEEL CONDITIONS-APPLIES TO WHEELS GRASPED ON RIM WITH BOTH HANDS-TIME ALLOWED FOR MOVES OF LESS THAN 1 INCH 13 CASE 01 POSITION DIAL TO LOOSE TOLERANCE 1/4 TO 1/16 INCH 24 02 POSITION DIAL TO CLOSE TOLERANCE 1/16 TO 1/64 INCH 46 03 POSITION DIAL TO EXACT TOLERANCE 1/64 INCH OR LESS
NF	U	MAF	3909	MACBD01	45	BUTTON,DEPRESS(DOORBELL OR SIMILAR) STARTS-WITH REACH TO BUTTON INCLUDES-ALL THE MOTIONS NECESSARY TO CONTACT BUTTON AND DEPRESS BUTTON TWICE ENDS-WITH RELEASE OF BUTTON
NF	U	MAF	1231	MACCO01	70	CONTROL(FOOT),OPERATE WITH PRESSURE STARTS-WITH FOOT AT REST INCLUDES-ALL MOTIONS NECESSARY TO MOVE FOOT TO CONTROL,APPLY PRESSURE AFTER INITIAL MOVEMENT OF CONTROL,RELEASE CONTROL,AND MOVE FOOT ASIDE ENDS-WITH FOOT AT REST

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	U	MAA	KERKSAX	MACCSXX	VARIABLE	<p>CONTROLS, SET STARTS-WITH REACH TO CONTROL KNOB OR SWITCH INCLUDES-ALL THE MOTIONS NECESSARY TO REACH AND GRASP CONTROL, ADJUST OR SET TO DESIRED POSITIONS, RELEASE CONTROL ENDS-WITH RELEASE CONTROL IN REQUIRED POSITION CONDITIONS-APPLIES TO CONTROL KNOB, TOGGLE LEVER, OR BUTTON SWITCHES, REACH TO SWITCH APPROXIMATELY 18 INCHES.</p> <p>23 CASE 01 SWITCH, UP TO ONE INCH MOVE, NO PRESSURE REQUIRED</p> <p>36 02 SWITCH, UP TO ONE INCH MOVE, PRESSURE REQUIRED</p> <p>36 03 TURN KNOB, WRIST, UP TO 90 DEGREES, PRESSURE REQUIRED, LOOSE POSITION</p> <p>34 04 TURN KNOB, UP TO 180 DEGREES, NO PRESSURE REQUIRED, LOOSE POSITION</p> <p>45 05 TURN KNOB, UP TO 180 DEGREES, NO PRESSURE REQUIRED, CLOSE POSITION</p> <p>71 06 TURN KNOB, UP TO 180 DEGREES, NO PRESSURE REQUIRED, EXACT POSITION</p>
FFD	U	MAA	KERKS88	MACKU01	74	<p>KNOB (CONTROL), UNLOCK AND LOCK STARTS-WITH REACH TO LOCK INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP AND LOOSEN LOCK, OPEN LOCK AND RELEASE, REACH TO LOCK, GRASP AND CLOSE LOCK, TIGHTEN LOCK ENDS-WITH RELEASE OF LOCK</p>
NF	U	MAF	3527	MACLE01	37	<p>LEVER, ENGAGE, OR DISENGAGE STARTS-WITH REACH TO LEVER INCLUDES-APPLY PRESSURE AND MOVE LEVER UP TO NINE INCHES ENDS-WITH RELEASE OF LEVER</p>
NF	U	MAF	1137	MACLT01	102	<p>LEVER, TURN ON AND OFF (AIR VALVE OR SIMILAR) STARTS-WITH REACH TO LEVER INCLUDES-ALL THE MOTIONS NECESSARY TO REACH, GRASP AND TURN LEVER TO TURN ON AND OFF ENDS-WITH RELEASE OF LEVER</p>
MAA	U	MAA	MTLSSXX	MACMS01	104	<p>MACHINE, START AND STOP WITH PUSH BUTTON OR ROTARY SWITCH STARTS-WITH REACH TO SWITCH INCLUDES-PUSH OR TURN SWITCH, HESITATION TO ASCERTAIN POWER IS ON, REACH TO SWITCH, PUSH OR TURN SWITCH ENDS-WITH HESITATION TO ASCERTAIN POWER IS OFF</p>
NF	U	MAF	2382	MACMS02	34	<p>MACHINE, START OR STOP (PUSH TYPE SWITCH) STARTS-WITH A REACH TO BUTTON INCLUDES-ALL THE MOTIONS NECESSARY TO REACH TO SWITCH, PUSH TO TURN ON OR OFF AND REACH TO BALANCE ENDS-WITH REACH TO BALANCE CONDITION-NO PRESSURE REQUIRED</p>
DL	U	NAL	BELE	MACSOXX	VARIABLE	<p>SWITCHES, OPERATE, CONTROL PANEL STARTS-WITH A REACH TO THE FIRST SWITCH INCLUDES-ALL INTERMEDIATE REACHES AND SWITCH ACTIVATIONS ENDS-WITH A REACHING AWAY FROM THE CONTROL PANEL TO THE READY POSITION CONDITIONS-TOGGLE, BUTTON OR KEY TYPE SWITCHES</p> <p>49 CASE 01 REACH TO FIRST SWITCH ON CONTROL PANEL AND REACH TO READY POSITION</p> <p>13 02 REACH TO ADDITIONAL SWITCH ON CONTROL PANEL</p> <p>3 03 ACTIVATE TOGGLE SWITCH</p> <p>2 04 ACTIVATE BUTTON SWITCH</p> <p>7 05 ACTIVATE KEY SWITCH</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION																														
NF	U	MAF	2394	MACTSO1	22	TOOL, START/DRILL OR SIMILAR WITH TRIGGER SWITCH) STARTS-WITH A REACH TO SWITCH INCLUDES-ALL THE MOTIONS NECESSARY TO ACTUATE THE SWITCH ON AN ELECTRIC DRILL ENDS-WITH RELEASE OF SWITCH																														
NAA	U	MAA	OACVOXX	MACVCXX	VARIABLE	VALVE, OPEN AND CLOSE STARTS-WITH REACH TO VALVE INCLUDES-TURNING WHEEL OR LEVER ENDS-WITH VALVE OPEN OR CLOSED AND RELEASED CONDITIONS-AVERAGE NUMBER OF TURNS REQUIRED TO OPEN OR CLOSE VALVE COMPLETELY IS 5.31. RESISTANCE TO TURN VALVE AVERAGES FROM APPROXIMATELY A FRACTION OF A POUND TO TWO POUNDS. VALVE STEM HANDLE IS IN RANGE OF 1 1/2 TO 3 INCHES DIAMETER OR 1 1/2 TO 4 INCH LENGTH BAR HANDLE 75 CASE 01 LEVER TYPE VALVE OR PETCOCK-TURNED NOT IN EXCESS OF 180 DEGREES 581 02 GLOBE TYPE VALVE-TURN NOT IN EXCESS OF SEVEN TURNS 330 03 GLOBE TYPE VALVE-SPIN NOT IN EXCESS OF SEVEN TURNS																														
NF	U	MAF	2089	MACVOXX	VARIABLE	VALVE, OPEN OR CLOSE STARTS-WITH TURN TO STEP TO VALVE INCLUDES-ALL MOTIONS NECESSARY TO WALK ONE PACE, BEND, GET VALVE HANDLE, OPEN OR CLOSE, AND ARISE ENDS-WITH OPERATOR STANDING ERECT 315 CASE 01 SMALL VALVE, OPEN OR CLOSE W/ONE HAND 531 02 LARGE VALVE, OPEN OR CLOSE W/TWO HANDS																														
NF	U	MAF	2404	MACV003	36	VALVE, OPEN OR CLOSE STARTS-WITH REACH TO VALVE HANDLE INCLUDES-ALL MOTIONS NECESSARY TO OPEN OR CLOSE A VALVE SUCH AS A WATER FAUCET ENDS WITH RELEASE OF VALVE CONDITION-VALVE TURNED NOT MORE THAN 180 DEGREES																														
FFD	U	MAA	BACCCXX	TACCCXX	TABLE	CRANK, WITH CRANKING MOTIONS STARTS-WITH HAND ON CRANK INCLUDES-ALL MOTIONS NECESSARY TO TURN CRANK OR WHEEL WITH HANDLE ONE REVOLUTION UTILIZING CRANKING MOTIONS ENDS-WITH HAND ON CRANK <table><tr><th colspan="2"></th><th colspan="3">CRANK DIAMETER (INCHES)</th></tr><tr><th colspan="2"></th><th>1-3</th><th>3-12</th><th>12-19</th></tr><tr><th colspan="2"></th><th>A</th><th>B</th><th>C</th></tr><tr><td>FIRST REVOLUTION, 2.5 POUNDS OR LESS RESISTANCE</td><td>A</td><td>15</td><td>19</td><td>21</td></tr><tr><td>ADDITIONAL REVOLUTION, 2.5 POUNDS OR LESS RESISTANCE</td><td>B</td><td>10</td><td>14</td><td>16</td></tr><tr><td>PER REVOLUTION, 2.5-17 POUNDS RESISTANCE (EFFECTIVE NET WEIGHT)</td><td>C</td><td>26</td><td>30</td><td>33</td></tr></table>			CRANK DIAMETER (INCHES)					1-3	3-12	12-19			A	B	C	FIRST REVOLUTION, 2.5 POUNDS OR LESS RESISTANCE	A	15	19	21	ADDITIONAL REVOLUTION, 2.5 POUNDS OR LESS RESISTANCE	B	10	14	16	PER REVOLUTION, 2.5-17 POUNDS RESISTANCE (EFFECTIVE NET WEIGHT)	C	26	30	33
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DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

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NAA	U	NAA	BACWSXX	TACWSXX	TABLE	WHEEL, SHIFT GRASP AND TURN 1/3 REVOLUTION STARTS-WITH HANDS ON RIM OF WHEEL INCLUDES-ALL MOTIONS NECESSARY TO SHIFT THE GRASP ON RIM AND TURN WHEEL 1/3 REVOLUTION ENDS-WITH HANDS ON THE WHEEL CONDITION-TO BE USED FOR ADDITIONAL MOVES ONLY. FOR FIRST MOVE USE TAC-WM-XX. <table><tr><th rowspan="2">DISTANCE RIM MOVED (INCHES)</th><th rowspan="2"></th><th colspan="2">RESISTANCE (POUNDS)</th></tr><tr><th>TO 5 A</th><th>5-35 B</th></tr><tr><td>1-3</td><td>A</td><td>12</td><td>16</td></tr><tr><td>3-9</td><td>B</td><td>19</td><td>24</td></tr><tr><td>9-15</td><td>C</td><td>27</td><td>32</td></tr><tr><td>15-21</td><td>D</td><td>34</td><td>40</td></tr></table>	DISTANCE RIM MOVED (INCHES)		RESISTANCE (POUNDS)		TO 5 A	5-35 B	1-3	A	12	16	3-9	B	19	24	9-15	C	27	32	15-21	D	34	40
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AE	U	MAN	BBMVH21	BBMBM01	83	BODY, MOVE SIDWAYS TO NEW LOCATION WHILE SEATED STARTS-MOVEMENT OF FOOT TO ONE SIDE INCLUDES-ALL MOTIONS NECESSARY TO CONTACT SEAT WITH HAND(S), RAISE BODY FROM SEAT, SHIFT TO ONE SIDE, LOWER BODY TO SEAT, AND REPOSITION OTHER FOOT AND LEG. ENDS-WITH RELEASE (CONTACT) OF SEAT WITH HAND(S)																						
FFF	U	NAA	BBNFM01	BBNFM01	9	FOOT, MOVE SIDWAYS OR VERTICALLY, NO PRESSURE APPLIED STARTS-WITH VERTICAL OR SIDWAYS MOTION OF THE FOOT INCLUDES-ROTATING THE BALL OF THE FOOT ABOUT EITHER THE HEEL OR INSTEP WHERE THE PREDOMINANT PURPOSE IS TO RELOCATE THE FOOT OR THE OBJECT CONTACTED BY THE FOOT ENDS-WHEN MOVEMENT CEASES CONDITION-WHEN APPLICATION OF PRESSURE OCCURS ADD BEL-AP-02																						
FFF	U	NAA	BBMHC01	BBMHC01	19	HORIZONTAL CHANGE (SIDESTEP OR TURN BODY) STARTS-WITH MOVEMENT OF ONE LEG AND FOOT INCLUDES-DISPLACEMENT OF THE TRUNK LATERALLY WITHOUT ROTATION (SIDESTEP), OR ROTATING THE TRUNK WITH ONLY MINOR LATERAL DISPLACEMENT BY MOVEMENT OF ONE LEG AND FOOT ENDS-WHEN FOOT AND LEG HAVE BEEN PLACED AND HAVE ASSUMED THEIR PORTION OF THE BODY WEIGHT CONDITION-LIMITED TO TURN BODY 90 DEGREES OR SIDESTEP 15 INCHES. ENSUING MOTION STARTS WHEN LEADING FOOT CONTACTS SURFACE. WHEN LAGGING FOOT MUST CONTACT SURFACE BEFORE ENSUING MOTION. USE BBM-HC-01 TIMES TWO.																						
FFF	U	NAA	BBMLNXX	BBMLNXX VARIABLE	7 14 22	LEG, MOVE, TO 21 INCHES STARTS-WITH MOVEMENT OF THE LEG INCLUDES-PLACEMENT OF THE FOOT AND/OR LEG IN ANY DIRECTION BY PIVOTING THE LEG AT THE KNEE AND/OR HIP WHEN THE PREDOMINANT PURPOSE IS TO MOVE THE LEG OR FOOT RATHER THAN THE BODY ENDS-WHEN MOVEMENT CEASES CASE 06 LEG MOTION 3-9 INCHES 12 LEG MOTION 9-15 INCHES 18 LEG MOTION 15-21 INCHES																						
FFF	U	NAA	BBMSSXX	BBMSSXX VARIABLE	108 172	SIT AND STAND STARTS-WITH THE BODY IN FRONT OF THE SEAT INCLUDES-MOTIONS REQUIRED TO LOWER THE BODY TO A SEAT AND TO ARISE FROM THE SEAT ENDS-WHEN THE BODY HAS ASSUMED A STANDING POSITION CASE 01 SIT AND STAND, CHAIR STATIONARY 02 SIT AND STAND, CHAIR MOVED																						

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFF	U	MAA	BBMVCXX	BBMVCXX VARIABLE	61 146	VERTICAL CHANGE STARTS-WITH BODY PREPOSITIONED FOR LOWERING TRUNK INCLUDES-BODY MOTIONS FOR LOWERING AND RAISING TRUNK ENDS-WHEN BODY HAS ASSUMED AN ERECT STANCE CASE 01 BEND, STOOP, OR KNEEL (ON ONE KNEE; AND) ARISE 02 KNEEL ON BOTH KNEES AND ARISE
FFF	U	MAA	BBHWO01	BBHWO01	17	WALK, OBSTRUCTED, PER PACE STARTS-WITH MOTION OF THE FOOT AND LEG INCLUDES-EMPLOYING THE FEET AND LEGS ALTERNATELY TO DISPLACE THE TRUNK FORWARD OR BACKWARD BY ONE STEP UNDER OBSTRUCTED CONDITIONS ENDS-WHEN THE FOOT HAS CONTACTED THE GROUND AND REASSUMED ITS PORTION OF THE WEIGHT
MAA	U	MAA	BBMWUX	BBMWUX VARIABLE	15 53	WALK, UNOBSTRUCTED STARTS-WITH MOVEMENT OF FOOT AND LEG INCLUDES-EMPLOYING THE FEET AND LEGS ALTERNATELY TO DISPLACE THE TRUNK FORWARD OR BACKWARD UNDER UNOBSTRUCTED CONDITIONS ENDS-WHEN THE FOOT HAS TOUCHED THE GROUND AND REASSUMED ITS PORTION OF THE BODY WEIGHT CASE 01 WALK ONE PACE 02 WALK TEN FEET
DL	U	EUL	BMBA	MBMAB01	596	AIRCRAFT, BOARD AND DISMOUNT STARTS-WITH LIFTING THE LEG TO THE FIRST RUNG INCLUDES-ALL THE TIME NECESSARY TO CLIMB SEVEN STEPS INTO AND OUT OF AN AIRCRAFT ENDS-WITH BOTH FEET ON GROUND AFTER CLIMBING DOWN LADDER
NF	U	MAF	371	MBNCLXX VARIABLE	122 67	LADDER(EXTENSION), CLIMB AND DESCEND STARTS-WITH REACH TO LADDER INCLUDES-ALL MOTIONS NECESSARY TO NEGOTIATE ONE RUNG OF A LADDER UP AND DOWN ENDS-WITH RELEASE OF LADDER CONDITION-HANDS MUST BE FREE TO GRASP LADDER. APPLICABLE TO EXTENSION OR OTHER LEAN TYPE LADDERS CASE 01 FIRST RUNG 02 EACH ADDITIONAL RUNG
FFD	U	MAA	MBNLCXX	MBNLCXX VARIABLE	401 149	LADDER(VERTICAL), CLIMB UP AND DOWN ONE RUNG OR STEP STARTS-WITH PERSON READY TO CLIMB INCLUDES-ALL MOTIONS NECESSARY TO NEGOTIATE ONE RUNG OF A LADDER UP AND DOWN ENDS-WHEN NEGOTIATION OF ONE RUNG OR MOUNT/ DISMOUNT IS COMPLETED CONDITION-APPLIES TO VERTICAL TYPE LADDER CASE 01 CLIMB ONE RUNG, DISMOUNT/MOUNT AT TOP/ BOTTOM, MOUNT/DISMOUNT, CLIMB ONE RUNG 02 CLIMB EACH ADDITIONAL RUNG
DL	U	EUL	BMBL	MBHTB01	701	TRUCK(PICKUP), BOARD AND DISMOUNT BACK END STARTS-WITH REACH TO TAILGATE INCLUDES-ALL THE TIME NECESSARY TO BOARD, TAKE A SEAT IN THE BACK OF THE TRUCK AND LEAVE THE TRUCK ENDS-WITH BOTH FEET ON GROUND READY TO WALK

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	DWNSTOP ELEMENT	THU VALUE	OPERATION/ELEMENT DESCRIPTION																																																																																																																																																																																																								
NAA	U	NAA	NBMXXXX	TBMPCKX	TABLE	<p>POSITION, CHANGE</p> <p>STARTS-WITH FIRST MOVEMENT OF BODY MEMBER</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO SIDESTEP AND WALK; TURN AND WALK; OR ARISE, TURN, AND WALK</p> <p>ENDS-WITH LAST PACE OF WALKING OR LAST MOTION OF BODY MEMBER</p> <p>CONDITIONS-OBSTRUCTED WALKING ONLY</p> <p>REFERENCE-ROW A, HORIZONTAL CHANGE(HC), INCLUDES TURN BODY OR SIDESTEP AND WALK</p> <p>ROW B, HORIZONTAL/VERTICAL CHANGE(HV), INCLUDES TURN BODY OR SIDESTEP; WALK; AND STOOP, BEND, OR KNEEL</p> <p>ROW C, VERTICAL CHANGE(VC), INCLUDES ARISE; TURN BODY OR SIDESTEP; WALK; AND STOOP, BEND, OR KNEEL</p> <p>PACES WALKED</p> <table><tr><td></td><td></td><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr><tr><td></td><td></td><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td><td>G</td><td>H</td></tr><tr><td>HC</td><td>A</td><td>19</td><td>36</td><td>53</td><td>70</td><td>87</td><td>104</td><td>121</td><td>138</td></tr><tr><td>HV</td><td>B</td><td>50</td><td>67</td><td>84</td><td>101</td><td>118</td><td>135</td><td>152</td><td>169</td></tr><tr><td>VC</td><td>C</td><td>80</td><td>97</td><td>114</td><td>131</td><td>148</td><td>165</td><td>182</td><td>199</td></tr></table> <table><tr><td></td><td></td><td>8</td><td>9</td><td>10</td><td>12</td><td>14</td><td>16</td><td>18</td><td>20</td></tr><tr><td></td><td></td><td>I</td><td>J</td><td>K</td><td>L</td><td>M</td><td>N</td><td>O</td><td>P</td></tr><tr><td>HC</td><td>A</td><td>155</td><td>172</td><td>189</td><td>223</td><td>257</td><td>291</td><td>325</td><td>359</td></tr><tr><td>HV</td><td>B</td><td>186</td><td>203</td><td>220</td><td>254</td><td>288</td><td>322</td><td>356</td><td>390</td></tr><tr><td>VC</td><td>C</td><td>216</td><td>233</td><td>250</td><td>284</td><td>318</td><td>352</td><td>386</td><td>420</td></tr></table> <table><tr><td></td><td></td><td>22</td><td>24</td><td>26</td><td>28</td><td>30</td><td>32</td><td>34</td><td>36</td></tr><tr><td></td><td></td><td>Q</td><td>R</td><td>S</td><td>T</td><td>U</td><td>V</td><td>W</td><td>Y</td></tr><tr><td>HC</td><td>A</td><td>393</td><td>427</td><td>461</td><td>495</td><td>529</td><td>563</td><td>597</td><td>631</td></tr><tr><td>HV</td><td>B</td><td>424</td><td>458</td><td>492</td><td>526</td><td>560</td><td>594</td><td>628</td><td>662</td></tr><tr><td>VC</td><td>C</td><td>454</td><td>488</td><td>522</td><td>556</td><td>590</td><td>624</td><td>658</td><td>692</td></tr></table> <table><tr><td></td><td></td><td>38</td><td>40</td><td>42</td><td>44</td><td>46</td><td>48</td><td>50</td><td>52</td></tr><tr><td></td><td></td><td>Z</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr><tr><td>HC</td><td>A</td><td>665</td><td>699</td><td>733</td><td>767</td><td>801</td><td>835</td><td>869</td><td>903</td></tr><tr><td>HV</td><td>B</td><td>696</td><td>730</td><td>764</td><td>798</td><td>832</td><td>866</td><td>900</td><td>934</td></tr><tr><td>VC</td><td>C</td><td>726</td><td>760</td><td>794</td><td>828</td><td>862</td><td>896</td><td>930</td><td>964</td></tr></table>			0	1	2	3	4	5	6	7			A	B	C	D	E	F	G	H	HC	A	19	36	53	70	87	104	121	138	HV	B	50	67	84	101	118	135	152	169	VC	C	80	97	114	131	148	165	182	199			8	9	10	12	14	16	18	20			I	J	K	L	M	N	O	P	HC	A	155	172	189	223	257	291	325	359	HV	B	186	203	220	254	288	322	356	390	VC	C	216	233	250	284	318	352	386	420			22	24	26	28	30	32	34	36			Q	R	S	T	U	V	W	Y	HC	A	393	427	461	495	529	563	597	631	HV	B	424	458	492	526	560	594	628	662	VC	C	454	488	522	556	590	624	658	692			38	40	42	44	46	48	50	52			Z	1	2	3	4	5	6	7	HC	A	665	699	733	767	801	835	869	903	HV	B	696	730	764	798	832	866	900	934	VC	C	726	760	794	828	862	896	930	964
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AE	U	NAM	FINVA01	BCLOC01	61	<p>DIAL, CLEAN WITH CLOTH</p> <p>STARTS-WITH CLOTH IN HAND</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO MOVE CLOTH TO DIAL, WIPE DIAL, AND MOVE CLOTH AWAY</p> <p>ENDS-WITH CLOTH IN HAND</p> <p>CONDITION-APPLICABLE TO WIPING SMALL DIALS, GAUGES, OR SIMILAR WITH DIAMETER OF FOUR INCHES OR LESS</p>																																																																																																																																																																																																								
AE	J	NAM	FINEAD1	BCLOW01	45	<p>DIPSTICK, WIPE WITH CLOTH</p> <p>STARTS-WITH CLOTH IN ONE HAND AND DIPSTICK IN OTHER HAND</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO GET DIPSTICK TO CLOTH, GRASP DIPSTICK WITH CLOTH, AND PULL THROUGH</p> <p>ENDS-WITH MOVE CLOTH AWAY FROM DIPSTICK</p>																																																																																																																																																																																																								

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DMMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	U	MAF	3213	BCLPCXX	VARIABLE	<p>PART,CLEAN WITH RAG STARTS-WITH MOVE RAG TO PART INCLUDES-ALL THE MOTIONS NECESSARY TO WIPE AND CLEAN A PART ENDS-WITH MOVE RAG AWAY CONDITIONS-SMALL PART-METAL OR NON-METAL PART WITH WEIGHT TO THREE POUNDS AND AREA TO TWO SQUARE FEET MEDIUM PART-METAL OR NON-METAL PART WITH WEIGHT 3-40 POUNDS AND AREA TWO-SIX SQUARE FEET LARGE PART-METAL OR NON-METAL PART WITH WEIGHT 40-100 POUNDS AND AREA 6-10 SQUARE FEET CASE 01 SMALL PART ON BENCH 02 MEDIUM PART ON BENCH 03 LARGE PART ON FLOOR-FIRST SQUARE FOOT 04 LARGE PART ON FLOOR-EACH ADDITIONAL SQUARE FOOT</p>
					258 487 103 80	
NF	U	MAF	1135	BCLSCXX		<p>SURFACE,CLEAN WITH SCRAPER STARTS-WITH APPLY PRESSURE TO SCRAPER INCLUDES-ALL THE MOTIONS NECESSARY TO SCRAPE ONE SQUARE FOOT OF SURFACE ENDS-WITH ONE SQUARE FOOT SCRAPED CONDITION-APPLICABLE TO USE OF FLAT SCRAPER FOR REMOVAL OF HEAVY DIRT OR GREASE OR LIGHT CORROSION,RUST,OR SCALE CASE 01 SMOOTH SURFACE-UNOBSTRUCTED 02 SMOOTH SURFACE-OBSTRUCTED 03 ROUGH SURFACE-UNOBSTRUCTED 04 ROUGH SURFACE-OBSTRUCTED</p>
					449 898 732 1171	
NF	U	MAF	1134	BCLSC05	476	<p>SURFACE,CLEAN WITH WIRE BRUSH STARTS-WITH APPLY PRESSURE TO BRUSH INCLUDES-ALL THE MOTIONS NECESSARY TO BRUSH ONE SQUARE FOOT OF SURFACE ENDS-WITH ONE SQUARE FOOT BRUSHED</p>
NF	U	MAF	1138	BCLSC06	160	<p>SURFACE,CLEAN WITH AIR STARTS-WITH AIR ON AND HOSE IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO BLOW DIRT OFF OF ONE SQUARE FOOT OF SURFACE ENDS-WITH ONE SQUARE FOOT CLEANED</p>
FFE	U	MAA	GCLCXX	MCLACXX	VARIABLE	<p>AREA,CLEAN WITH AIR,TO NINE SQUARE INCHES STARTS-WITH NOZZLE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO PLACE NOZZLE TO SPOT TO BE CLEANED,ACTUATE TRIGGER,CLEAN TO NINE SQUARE INCHES,RELEASE TRIGGER,AND MOVE NOZZLE ASIDE ENDS-WITH NOZZLE IN HAND CASE 01 FIRST OR SINGLE SPOT TO NINE SQUARE INCHES 02 ADDITIONAL SPOT TO NINE SQUARE INCHES NOT TO EXCEED NINE INCHES APART</p>
					59 26	
FFE	U	MAA	GCLCSA1	MCLBC01	194	<p>BRUSH,CLEAN IN SOLVENT,SMALL BRUSH STARTS-WITH GET BRUSH INCLUDES-ALL MOTIONS NECESSARY TO PLACE BRUSH IN OPEN JAR OF SOLVENT,MOVE BRUSH IN SOLVENT TO CLEAN,GET CLOTH,PLACE BRUSH TO CLOTH,PULL BRUSH THROUGH CLOTH TO CLEAN AND DRY,AND ASIDE CLOTH ENDS-WITH ASIDE BRUSH CONDITIONS-APPLICABLE TO SMALL BRUSH LESS THAN 3/16 INCH IN DIAMETER</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	OWNSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
AF	U	MAA	562	MCLCS01	351	COMPOUND(SEAL),SCRAPE OFF STARTS-WITH PART AND TOOL IN HANDS INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE TOOL TO PART,MAKE 20 STROKES WITH PRESSURE ON SURFACE TO BE SCRAPED ENDS-WITH COMPLETION OF LAST STROKE CONDITIONS-SCRAPE FLAT CIRCULAR SURFACE 1/2 INCH WIDE AND TWO INCHES IN DIAMETER
FPD	U	MAA	GECCH05	MCLHC01	420	HANDS,CLEAN BY DIPPING IN FLUID CLEANER STARTS-WITH REACH HANDS TO CLEANER(SINO) INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE HANDS INTO CLEANER,MOVE HANDS TOGETHER TO CLEAN,REMOVE HANDS FROM CLEANER AND GET TOWEL, WIPE HANDS WITH TOWEL,ASIDE TOWEL ENDS-WITH ASIDE TOWEL
FFE	J	MAA	GCLCH01	MCLHW01	271	HANDS,WIPE WITH CLOTH OR PAPER TOWEL STARTS-WITH REACH TO TOWEL INCLUDES-ALL THE MOTIONS NECESSARY TO WIPE BOTH HANDS CLEAN ENDS-WITH ASIDE TOWEL
NF	U	MAF	3195	MCLHW02	160	HAND,WIPE WITH CLOTH OR PAPER TOWEL STARTS-WITH REACH TO CLOTH OR TOWEL INCLUDES-ALL MOTIONS NECESSARY TO GET TOWEL WITH ONE HAND,MOVE TO OTHER HAND,WIPE ONE HAND,AND LAY CLOTH OR TOWEL ASIDE ENDS-WITH RELEASE OF CLOTH OR TOWEL
FFE	U	MAA	GTLSKA1	MCLIC01	44	IRON(SOLDERING),CLEAN BY SHAKING STARTS-WITH IRON IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO LIFT IRON AND SHAKE TO REMOVE EXCESS SOLDER AND/OR DIRT FROM TIP ENDS-WITH IRON RETURNED TO STARTING POSITION
NF	U	MAF	343	MCLOCXX	VARIABLE	OBJECT,CLEAN WITH BRUSH,PER SQUARE FOOT STARTS-WITH REACH TO BRUSH INCLUDES-ALL MOTIONS NECESSARY TO GET BRUSH, MOVE TO WORK AREA,MAKE ONE FORWARD AND ONE RETURN STROKE ACROSS AREA TO BE CLEANED,AND RETURN BRUSH TO SHELF ENDS-WITH RELEASE OF BRUSH CONDITION-REMOVAL OF LOOSE MATERIAL FROM TABLE OR SIMILAR CASE 01 FIRST SQUARE FOOT 02 EACH ADDITIONAL SQUARE FOOT
NO	U	MAI	D1A	MCLOC03	88	OBJECT,CLEAN WITH BRUSH AND SOLVENT STARTS-WITH REACH TO GET OBJECT AND BRUSH INCLUDES-ALL THE MOTIONS NECESSARY TO GET OBJECT AND BRUSH,HOLD OBJECT,DIP BRUSH INTO SOLVENT,BRUSH OBJECT TO CLEAN AND ASIDE BRUSH AND OBJECT ENDS-WITH ASIDE BRUSH AND OBJECT CONDITION-APPLICABLE TO SMALL HAND HELD OBJECTS
AF	U	OBW	XX846	MCLOWXX	VARIABLE	OBJECT,WASH STARTS-WITH MOVE OBJECT TO CAN INCLUDES-ALL THE MOTIONS NECESSARY TO DIP AN OBJECT IN A CAN OF FLUID,MOVE IN FLUID,REMOVE, DRAIN AND ASIDE ENDS-WITH ASIDE TO TOTE BOX CONDITION-MAKE SIX 90 DEGREE TURNS TO WASH CASE 01 OBJECT WEIGHS TO TWO POUNDS 02 OBJECT WEIGHS 2-7 POUNDS 03 OBJECT WEIGHS 7-13 POUNDS

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

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AF	U	ODM	221091	NCLPCXX	VARIABLE	PART,CLEAN WITH AIR STARTS-WITH REACH TO AIR HOSE WITH ONE HAND AND OTHER HAND ON PART INCLUDES-ALL THE MOTIONS NECESSARY TO GET THE HOSE,MOVE HOSE TO PART,TURN ON AIR WITH PUSH BUTTON,ROTATE PART,TURN OFF AIR,RETURN HOSE ENDS-WITH ONE HAND AWAY FROM HOSE AND OTHER HAND ON PART 162 CASE 01 FOUR INCH PART TO FIVE POUNDS 279 02 EIGHT INCH PART 5-15 POUNDS 370 03 12 INCH PART-15 TO 40 POUNDS
PFE	U	MAA	GCLCAB1	NCLSCXX	VARIABLE	SURFACE,CLEAN,WITH BRUSH,MEDIUM RESISTANCE STARTS-WITH REACH TO BRUSH INCLUDES-ALL THE MOTIONS NECESSARY TO GET A BRUSH,PLACE BRUSH ON SURFACE,MOVE BRUSH TO CLEAN SURFACE AND ASIDE BRUSH ENDS-WITH ASIDE BRUSH CONDITIONS-TIME IS TO CLEAN ONE SQUARE FOOT OF SURFACE 223 CASE 01 FIRST SQUARE FOOT 180 02 EACH ADDITIONAL SQUARE FOOT
PFE	U	MAA	GCLCH47	NCLSC03	1584	SURFACE,CLEAN WITH SANDPAPER STARTS-WITH REACH TO GET SANDPAPER INCLUDES-ALL THE MOTIONS NECESSARY TO GET AND PLACE SANDPAPER TO SURFACE AND SAND UP TO ONE SQUARE FOOT OR EACH ADDITIONAL SQUARE FOOT OF AREA ENDS-WITH SANDPAPER IN HAND READY TO CONTINUE OR ASIDE CONDITIONS-WET OR DRY SANDPAPER-USED FOR CLEANING,DRESSING OUT BLEMISHES OR PREPARING SURFACE FOR PAINT,ETC.-DOES NOT INCLUDE MOVING OR POSITIONING PART
MF	U	MAF	1259	NCLSC04	334	SURFACE,CLEAN WITH WIRE BRUSH,EMERY CLOTH AND RAG-PER FOUR LINEAR INCHES STARTS-WITH REACH TO PICK UP BRUSH INCLUDES-ALL THE MOTIONS NECESSARY TO GET A WIRE BRUSH,CLEAN A FOUR INCH SPOT,ASIDE BRUSH AND GET EMERY CLOTH OR PIECE OF STEEL WOOL, CLEAN SPOT,ASIDE EMERY CLOTH OR STEEL WOOL,GET RAG,WIPE SPOT CLEAN AND ASIDE RAG ENDS-WITH RELEASE OF RAG
PFE	U	MAA	GCLCMB1	NCLSCXX	VARIABLE	SURFACE,SCRAPE TO CLEAN STARTS-WITH REACH TO GET CLEANING IMPLEMENT INCLUDES-ALL THE MOTIONS NECESSARY TO CLEAN RUST OR CORROSION FROM A SURFACE BY HAND ENDS-WITH SURFACE CLEAN AND CLEANING IMPLEMENT IN HAND CONDITIONS-WIRE BRUSH,CROCUS CLOTH OR EMERY PAPER USED TO CLEAN 251 CASE 01 CLEAN UP TO ONE SQUARE INCH 551 02 CLEAN 1-4 SQUARE INCHES 791 03 CLEAN 4-9 SQUARE INCHES 1031 04 CLEAN 9-16 SQUARE INCHES 1271 05 CLEAN 16-25 SQUARE INCHES
PFE	U	MAA	GCLMSA1	NCLSMXX	VARIABLE	SURFACE,WIPE WITH CLOTH STARTS-WITH REACH FOR CLOTH INCLUDES-ALL THE MOTIONS NECESSARY TO GET AND PLACE CLOTH ON SURFACE AND CLEAN ONE SQUARE FOOT OF SURFACE ENDS-WITH CLOTH ASIDE 127 CASE 01 FLAT SURFACE,FIRST SQUARE FOOT 72 02 FLAT SURFACE,EACH ADDITIONAL SQUARE FOOT 199 03 IRREGULAR SURFACE,FIRST SQUARE FOOT 144 04 IRREGULAR SURFACE,EACH ADDITIONAL SQUARE FOOT

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

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NAA	U	NAA	BCLXXXX	TCLOCXX	TABLE	<p>OBJECT,CLEAN,PER STROKE STARTS-WITH CLEANING DEVICE IN PLACE AND READY FOR USE INCLUDES-ALL MOTIONS NECESSARY TO MAKE ONE STROKE WITH THE CLEANING DEVICE ENDS-WITH LAST USE OF CLEANING DEVICE CONDITIONS-APPLICABLE TO THE REMOVAL OF FOREIGN MATTER BY CHEMICAL OR MECHANICAL PROCESS. TIME VALUES FOR ROWS B,D,AND G INCLUDE APPLY PRESSURE AT THE BEGINNING OF THE STROKE. TIME FOR FORWARD AND RETURN STROKE INCLUDED. WIDTH OF AREA CLEANED DEPENDS ON THE WIDTH OF THE CLEANING DEVICE. DISTANCE PER 1-WAY STROKE(INCHES) TO 1 1-3 3-9 9-15 15-21 21-27 A B C D E F</p> <p>TO 2.5 LBS RESISTANCE</p> <p>WITHOUT PRESSURE A 4 9 18 27 34 41</p> <p>W/PRESS B 15 20 28 37 45 52</p> <p>2.5 TO 10 LBS RESISTANCE</p> <p>ONE WAY</p> <p>WITHOUT PRESSURE C 6 12 21 30 37 45</p> <p>W/PRESS D 15 20 29 38 46 53</p> <p>BOTH WAYS E 8 14 23 33 40 48</p> <p>10-20 LBS RESISTANCE</p> <p>ONE WAY</p> <p>WITHOUT PRESSURE F 10 16 25 35 43 50</p> <p>W/PRESS G 15 21 30 40 48 55</p> <p>BOTH WAYS H 16 22 32 43 51 59</p>
FFD	U	TCA	GECCHXX	TCLPCXX	TABLE	<p>PART,CLEAN(BY HAND)WITH SOLVENT STARTS-WITH PART IN SOLVENT BOOTH,CLEANING INSTRUMENT IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO WASH PART WITH A BRUSH,SPRAY WITH SOLVENT TO RINSE AND BLOW OFF WITH AIR TO DRY ENDS-WITH CLEANING COMPLETE CONDITIONS-DOES NOT INCLUDE GET/ASIDE BRUSH, SPRAY,AIR HOSE OR PART</p> <p>OPERATION</p> <p>SIZE OF PART SMALL MEDIUM LARGE A B C</p> <p>HAND WASH- WITH BRUSH A 1223 1867 4034</p> <p>SOLVENT SPRAY B 237 608 673</p> <p>BLOW OFF WITH AIR C 373 605 1667</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

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FFH	U	MAA	KERCLAX	SCLQRXX	VARIABLE	<p>CORROSION, REMOVE FROM SPOT ON SURFACE STARTS-WITH REACH TO GET WIRE BRUSH INCLUDES-ALL THE MOTIONS NECESSARY TO GET WIRE BRUSH AND SCRUB CORRODED SPOT TO REMOVE CORROSION, ASIDE BRUSH, GET CONTAINER OF CLEAN- ING COMPOUND, GET CLOTH, OPEN CONTAINER AND TILT TO WET CLOTH, ASIDE CONTAINER, WIPE BRUSHED SPOT WITH WET CLOTH, TURN CLOTH TO DRY SURFACE AND WIPE WET AREA DRY, ASIDE CLOTH, GET CLEANER CONTAINER AND REPLACE LID, ASIDE CAN ENDS-WITH RELEASE OF CONTAINER CONDITIONS-BRUSH FIRST SQUARE INCH WITH 120 STROKES, EACH ADDITIONAL SQUARE INCH WITH 43 STROKES. WIRE BRUSH TO 1/4 INCH WIDE/DIAMETER. CASE 01 BRUSH, WIPE WITH WET AND DRY CLOTH; FIRST OR ONLY SQUARE INCH; FLAT SURFACE 02 BRUSH ONLY; EACH ADDITIONAL SQUARE INCH; TIME IS INCLUDED IN CASE 01 TO WIPE AREA UP TO 12 INCHES LONG-FLAT SURFACE 03 BRUSH, WIPE WITH WET AND DRY CLOTH; FIRST OR ONLY SQUARE INCH; ROUND OR IRREGULAR SURFACE 04 BRUSH ONLY; EACH ADDITIONAL SQUARE INCH; TIME IS INCLUDED IN CASE 03 TO WIPE AREA UP TO 12 INCHES LONG; ROUND OR IRREGULAR SURFACE</p>
					1765	
					430	
					3085	
					903	
FFH	U	MAA	KCLSPAX	SCLCSXX	VARIABLE	<p>SPOT, CLEAN ON FLAT OR IRREGULAR SURFACE WITH PICK AND AIR STARTS-WITH REACH TO GET TOOL (PICK) INCLUDES-ALL THE MOTIONS NECESSARY TO GET PICK AND POSITION TO SPOT, CLEAN SPOT WITH PICK (LIGHT RESISTANCE AND PRESSURE), AND ASIDE TOOL, GET AIR NOZZLE, POSITION TO WORK AND ACTUATE BUTTON, CLEAN SPOT WITH AIR, ASIDE NOZZLE ENDS-WITH ASIDE AIR NOZZLE CONDITIONS-TOOL IS SIMILAR TO METAL PICK OR SPADE POINTER END OF SOLDERING AID. MAXIMUM DIAMETER OF SPOT IS 1/8 INCH. CASE 01 FIRST OR ONLY SPOT 02 EACH ADDITIONAL SPOT</p>
					209	
					115	
MAA	U	MAA	JPAHRRF	SCLSCXX	VARIABLE	<p>SURFACE, CLEAN WITH SOLVENT AND CLOTH STARTS-WITH REACH TO CAN AND LID INCLUDES-ALL THE MOTIONS NECESSARY TO GET CAN OF SOLVENT AND PRY OFF LID, ASIDE LID, GET RAG AND DIP IN SOLVENT, WRING OUT RAG, MOVE RAG TO AND SCRUB AREA, EXAMINE AREA FOR ADDITIONAL REMOVAL, RETURN RAG, REPLACE LID ON CAN ENDS-WITH LID ON CAN CONDITIONS-APPLICABLE TO REMOVAL OF SUBSTANCES SUCH AS MASKING TAPE RESIDUE OR SIMILAR FROM AREA TO 2X12 INCHES CASE 01 GET AND OPEN CAN OF SOLVENT, GET RAG PER OCCURENCE 02 DIP RAG IN SOLVENT, MOVE TO SURFACE AND RETURN TO SOLVENT, WRING RAG PER OCCURENCE 03 SCRUB AND EXAMINE SIMPLE SURFACE 04 SCRUB AND EXAMINE COMPLEX SURFACE</p>
					658	
					109	
					182	
					225	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	OWNSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	U	MAA	SCLCC47	SCLSMXX VARIABLE	183 81	SURFACE, WIPE WITH WET CLOTH STARTS-WITH REACH TO CLOTH IN BUCKET OF THINNER INCLUDES-ALL THE MOTIONS NECESSARY TO GET CLOTH FROM BUCKET OF THINNER, WRING OUT EXCESS THINNER, MOVE CLOTH TO SURFACE AND WIPE, ASIDE CLOTH ENDS-WITH ASIDE CLOTH CONDITIONS-THINNER IS MIL-TT-T-266, MIL-T-19544 OR SIMILAR, WIPE SURFACE THREE STROKES PER SQUARE FOOT CASE 01 WIPE FIRST OR ONLY SQUARE FOOT 02 WIPE EACH ADDITIONAL SQUARE FOOT (THREE STROKES WITH CLOTH ONLY)
FFE	U	MAA	GCPCA05	MCPC101	322	CLAMP (TYPE), INSTALL AND REMOVE STARTS-WITH REACH TO GET CLAMP INCLUDES-ALL THE MOTIONS NECESSARY TO PLACE, TIGHTEN, LOOSEN AND REMOVE CLAMP FROM OBJECT ENDS-WITH CLAMP ASIDE CONDITIONS-WING OR T TYPE HANDLE-CLAMP WEIGHS 2.5 TO 10 POUNDS. CLAMP IS OPEN.
NF	U	MAF	3000	MCPC102	46	CLAMP (SPRING), INSTALL STARTS-WITH REACH TO CLAMP INCLUDES-ALL THE MOTIONS NECESSARY TO GET AND INSTALL A SPRING CLAMP ON A PART ENDS-WITH RELEASE OF CLAMP
FFF	U	MAA	MCPC1XX	MCPC1XX VARIABLE	55 82 92	CLAMP (CLECO), INSTALL OR REMOVE STARTS-WITH HAND ON PLIERS AND PLIERS WITHIN THREE INCHES OF CLAMP INCLUDES-ALL MOTIONS NECESSARY TO INSTALL OR REMOVE CLECO CLAMP WITH CLECO PLIERS ENDS-WITH RELEASE OF TENSION ON CLAMP CASE 01 REMOVE CLECO CLAMP 06 INSTALL CLECO CLAMP WITH UP TO 15 INCH PLACE OF CLAMP 18 INSTALL CLECO CLAMP WITH 15-27 INCH PLACE OF CLAMP
FFF	U	MAA	MCPC101	MCPC101	75	CLAMP (TYPE), TIGHTEN OR LOOSEN STARTS-WITH HAND (S) ON CLAMP INCLUDES-ALL MOTIONS NECESSARY TO TIGHTEN OR LOOSEN A "C" CLAMP ENDS-WITH HAND (S) ON CLAMP CONDITIONS-UP TO 6-INCH T-HANDLE RADIUS, ONE REVOLUTION CLEARANCE BETWEEN PART AND CLAMP
FFF	U	MAA	MCPPJXX	MCPPJXX VARIABLE	112 50	JAW (PARALELL), TIGHTEN OR LOOSEN STARTS-WITH ONE HAND ON ADJUSTING HANDLE AND OTHER HAND ON LOCKING HANDLE READY TO TURN INCLUDES-ALL MOTIONS NECESSARY TO TIGHTEN OR LOOSEN PARALELL JAW DOUBLE HANDLE SCREW CLAMP ENDS-WITH HANDS ON HANDLES AFTER TIGHTENING OR LOOSENING CONDITION-UP TO ONE THREAD ADJUSTMENT INCLUDED CASE 01 LARGE CLAMP, TIGHTEN OR LOOSEN (SCREWDRIVER HANDLES) 02 SMALL CLAMP, TIGHTEN OR LOOSEN (KNURLED KNOBS TO 3/4 INCH O.D.)

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
FFF	U	NAA	MCPSPXX	MCPSPXX	VARIABLE	CLAMP(SPRING),INSTALL OR REMOVE,SMALL OR LARGE STARTS-WITH CLAMP IN HAND INCLUDES-ALL MOTIONS NECESSARY TO OPEN AND CLOSE CLAMP FOR INSTALLATION OR REMOVAL ENDS-WITH CLAMP IN HAND AFTER INSTALLATION OR REMOVAL CONDITIONS-DOES NOT INCLUDE MOVE TO INSTALLATION OR MOVE AWAY AFTER REMOVAL FROM PART. COMMON TO ALLIGATOR CLAMPS,HEAT SINKS, AND VISE GRIP TYPE CLAMPS CASE 01 SMALL CLAMP UP TO 1 INCH OF MOVEMENT 02 LARGE CLAMP FROM 1-3 INCHES OF MOVEMENT
					20	
					26	
NAA	U	NAA	QCPTXX	SCPCIXX	VARIABLE	CLAMP,INSTALL AND REMOVE STARTS-WITH REACH TO TOOL AND/OR CLAMP INCLUDES-ALL THE MOTIONS NECESSARY TO OBTAIN AND/OR ADJUST CLAMP AND INSTALL ON WORK AND LOOSEN AND REMOVE FROM WORK FOR FIRST CLAMP AND FOR EACH ADDITIONAL CLAMP USED ENDS-WITH CLAMP AND/OR TOOL ASIDE CONDITIONS-LIMITED TO ACCOMPLISHMENT CONTAIN- ING SOME INTERFERENCE BUT WHOLLY VISIBLE OR NO INTERFERENCE AND PARTIALLY VISIBLE CASE 01 CLECO,PLIER TYPE-FIRST PIECE 02 CLECO,PLIERS TYPE-ADDITIONAL PIECE 03 TOGGLE(QUICKIE)CLAMP OR VISE GRIP PLIERS-FIRST PIECE 04 TOGGLE(QUICKIE)CLAMP OR VISE GRIP PLIERS-ADDITIONAL PIECE 05 CLECO,WING NUT TYPE-PER PIECE 06 C CLAMP-FIRST PIECE 07 C CLAMP-ADDITIONAL PIECE 08 SPRING CLAMP-FIRST PIECE 09 SPRING CLAMP-ADDITIONAL PIECE
					388	
					230	
					359	
					208	
					516	
					555	
					306	
					174	
					89	
FFH	U	NAA	KMPHAXX	NDAPRXX	VARIABLE	PART,REMOVE FROM MOUNTING LOCATION OR MATING PART STARTS-WITH REACH TO PART INCLUDES-ALL MOTIONS NECESSARY TO GRASP PART AND REMOVE FROM MOUNTING LOCATION OR MATING PART ENDS-WITH ASIDE PART CONDITIONS-NO TIME INCLUDED FOR REMOVAL OF FASTENER(S).NORMAL ACCESS-NO INTERFERENCE WITH PART REMOVAL. CASE 01 SCREW MOUNTED,MULTI ALIGN PART;NORMAL ACCESS:0-2.5 POUNDS ENW 02 SCREW MOUNTED,MULTI ALIGN PART;NORMAL ACCESS:2.5-20 POUNDS ENW 03 SCREW MOUNTED,MULTI ALIGN PART;NORMAL ACCESS:20-40 POUNDS ENW 04 STUD OR BOLT MOUNTED,MULTI ALIGN PART; NORMAL ACCESS:0-2.5 POUNDS ENW 05 STUD OR BOLT MOUNTED,MULTI ALIGN PART; NORMAL ACCESS:2.5-20 POUNDS ENW 06 STUD OR BOLT MOUNTED,MULTI ALIGN PART; NORMAL ACCESS:20-40 POUNDS ENW
					58	
					91	
					97	
					62	
					95	
					101	
ND	U	NAD	LAIAL	NDAPROT	156	PART,REMOVE FROM MOUNTING LOCATION OR MATING PART,TIGHT FITTING PARTS STARTS-WITH REACH TO PART INCLUDES-ALL MOTIONS NECESSARY TO GAIN CONTROL OF PART AND SEPARATE FROM MOUNTING LOCATION ENDS-WITH SEPARATION OF PARTS CONDITIONS-PART REQUIRES MOVING SIDE TO SIDE TO BREAK CONTACT

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION																																																																		
FFH	U	MAA	KMPHAD3	MOAPR08	95	PART, REMOVE FROM MATING PART BY PUSHING WITH THUMBS STARTS-WITH REACH TO ASSEMBLY INCLUDES-ALL MOTIONS NECESSARY TO GET CONTROL OF ASSEMBLY WITH BOTH HANDS, PUSH WITH THUMBS TO REMOVE PART, AND GET AND ASIDE REMOVED PART ENDS-WITH RELEASE OF PART CONDITIONS-WEIGHT OF PART LESS THAN 2.5 POUNDS ENW, LENGTH OF ENGAGEMENT NOT TO EXCEED ONE INCH.																																																																		
FFH	U	MAA	KMPHAD5	MOAPR09	107	PART, REMOVE FROM MATING PART WITH FINGER STARTS-WITH REACH TO PART INCLUDES-ALL MOTIONS NECESSARY TO POSITION FINGER IN PART AND PULL FREE FROM MATING PART ENDS-WITH ASIDE PART CONDITIONS-PART WEIGHS LESS THAN 2.5 POUNDS ENW																																																																		
FFD	U	MAA	GEATNIX	TDAPIXX	TABLE	PART, INSTALL INTO HOLE OR ONTO SHAFT STARTS-WITH REACH TO GET PART/OBJECT INCLUDES-ALL THE MOTIONS NECESSARY TO GET PART OR OBJECT, POSITION TO HOLE OR SHAFT, ALIGN AND PUSH/PRESS ONTO SHAFT OR INTO HOLE BY HAND, TOOL OR PRESS ENDS-WITH PART INSTALLED, HAND ON PART CONDITIONS-NO TIME FOR WALKING INCLUDED																																																																		
						<table><thead><tr><th colspan="2"></th><th colspan="4">ENW OF PART/OBJECT (POUNDS)</th></tr><tr><th colspan="2"></th><th>TO 2.5</th><th>2.5 TO 10</th><th>TO 2.5</th><th>2.5 TO 10</th></tr><tr><th colspan="2"></th><th colspan="2">SYMMETRICAL</th><th colspan="2">NON-SYMMETRICAL</th></tr><tr><th colspan="2"></th><th>A</th><th>B</th><th>C</th><th>D</th></tr></thead><tbody><tr><td>BY HAND</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>PRESSURE</td><td>A</td><td>97</td><td>110</td><td>123</td><td>136</td></tr><tr><td>NO PRESSURE</td><td>B</td><td>65</td><td>68</td><td>91</td><td>94</td></tr><tr><td>WITH HAMMER</td><td>C</td><td>432</td><td>445</td><td>452</td><td>471</td></tr><tr><td>WITH HAMMER AND DRIFT</td><td>D</td><td>730</td><td>719</td><td>750</td><td>745</td></tr><tr><td>ARBOR PRESS HAND OPER.</td><td>E</td><td>486</td><td>492</td><td>506</td><td>512</td></tr><tr><td>HYDRAULIC PRESS</td><td>F</td><td>1054</td><td>1292</td><td>1074</td><td>1312</td></tr></tbody></table>			ENW OF PART/OBJECT (POUNDS)						TO 2.5	2.5 TO 10	TO 2.5	2.5 TO 10			SYMMETRICAL		NON-SYMMETRICAL				A	B	C	D	BY HAND						PRESSURE	A	97	110	123	136	NO PRESSURE	B	65	68	91	94	WITH HAMMER	C	432	445	452	471	WITH HAMMER AND DRIFT	D	730	719	750	745	ARBOR PRESS HAND OPER.	E	486	492	506	512	HYDRAULIC PRESS	F	1054	1292	1074	1312
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HYDRAULIC PRESS	F	1054	1292	1074	1312																																																																			
MF	U	MAF	3748	BOPBD01	42	BRUSH, DIP STARTS-WITH MOVE BRUSH INTO CAN INCLUDES-ALL MOTIONS NECESSARY TO MOVE BRUSH TO CAN, DIP, REMOVE, WIPE ON EDGE AND MOVE AWAY ENDS-WITH EXCESS WIPED FROM BRUSH																																																																		
FFH	U	MAA	BOPCM01	BOPCM01	38	CLOTH, WRING TO REMOVE EXCESS FLUID STARTS-WITH CLOTH IN HAND READY FOR WRINGING INCLUDES-ALL MOTIONS NECESSARY TO WRING EXCESS FLUID FROM CLOTH BY TWISTING WITH BOTH HANDS ENDS-WITH CLOTH IN HAND AFTER WRINGING CONDITIONS-THIS ELEMENT COVERS WRINGING A STANDARD SHOP CLOTH MEASURING APPROXIMATELY 14X18 INCHES OR SIMILAR ITEMS																																																																		
FFH	U	MAA	BOPHI01	BOPHI01	40	HAND, IMMERSE IN FLUID, REMOVE, AND SHAKE TO REMOVE EXCESS STARTS-WITH HAND AT SURFACE OF FLUID INCLUDES-DIP HAND, REMOVE, AND SHAKE ONCE TO REMOVE EXCESS FLUID ENDS-WITH HAND OUT OF FLUID CONDITIONS-APPLIES TO THE IMMERSION OF THE HAND IN FLUIDS SUCH AS WATER, THINNER, SOLVENTS																																																																		

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWSTDP ELEMENT	TMO VALUE	OPERATION/ELEMENT DESCRIPTION
ND	U	MAD	LA18	BDPDD01	63	OBJECT,DIP IN VISCOUS MATERIAL SUCH AS GREASE, RED LEAD OR SIMILAR STARTS-WITH PART IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE PART TO COMPOUND,IMMERSE PART,REMOVE PART FROM COMPOUND,AND VISUALLY CHECK COATING ENDS-WITH PART IN HAND
FFM	U	NAA	BDPPIX	BDPPIX	VARIABLE	PART,IMMERSE AND SHAKE STARTS-WITH PART IN HAND OR HELD WITH TOOL NEAR SOLUTION INCLUDES-ALL MOTIONS NECESSARY TO IMMERSE PART IN SOLUTION,REMOVE AND SHAKE OFF EXCESS LIQUID ENDS-WITH PART IN HAND OR HELD WITH TOOL NEAR SOLUTION CONDITIONS-APPLIES TO PARTS WITHOUT CAVITIES THAT DO NOT REQUIRE PROCESS TIME TO DRAIN CASE 01 LARGE PART,10-30 POUNDS 02 MEDIUM PART,5-10 POUNDS 03 SMALL PART,TO FIVE POUNDS 04 VERY SMALL PART,HANDLED WITH TOOL, TWEEZERS,MAGNET,ETC.
					73	
					48	
					32	
					23	
NAA	U	NAA	BDPBXX	TDPOIX	TABLE	OBJECT,IMMERSE IN LIQUID OR PASTE STARTS-WITH OBJECT IN HAND AND AT SURFACE OF LIQUID OR PASTE INCLUDES-ALL MOTIONS NECESSARY TO IMMERSE AND REMOVE OBJECT OR TO WIPE OFF EXCESS LIQUID OR PASTE ENDS-WITH OBJECT IN HAND READY TO MOVE FOR USE CONDITIONS-AVERAGE IMMERSION APPLIES TO TOLERANCES OF 1/2 INCH OR GREATER,CAREFUL IMMERSION APPLIES TO TOLERANCES OF 1/16 TO 1/2 INCH,WIPE AFTER IMMERSION(CASE CX) IS TO BE ADDED TO CASES AX OR BX AS APPROPRIATE DEPTH OF IMMERSION(INCHES) TO-1 1-3 3-9 A 8 C AVERAGE IMMERSION A 4 9 18 CAREFUL IMMERSION B 10 14 24 WIPE AFTER C 4 10 21 IMMERSION
FFF	U	NAA	BELAPXX	BELAPXX	VARIABLE	APPLY PRESSURE STARTS-WITH BODY MEMBER IN CONTACT WITH OBJECT(S) INCLUDES-EXERTION OF MUSCULAR FORCE ON AN OBJECT TO ACHIEVE CONTROL,TO RESTRAIN OR TO OVERCOME RESISTANCE TO MOTION ENDS-WITH ACTING BODY MEMBER IN CONTACT WITH OBJECT(S) CASE 01 REGRAASP OR SQUEEZE AND APPLICATION OF PRESSURE 02 APPLICATION OF PRESSURE ONLY
					16	
					11	
FFF	U	NAA	BELDEX	BELDEX	VARIABLE	DISENGAGE ONE OBJECT FROM ANOTHER OBJECT STARTS-WITH HAND ON AN OBJECT JOINED WITH ANOTHER OBJECT INCLUDES-THE SUDDEN END OF CONTACT RESISTANCE BETWEEN TWO OR MORE OBJECTS PREVIOUSLY JOINED, EVIDENCED BY AN INVOLUNTARY RECOIL MOTION ENDS-WITH HAND ON OBJECT DETACHED CONDITION-FOR OBJECTS DIFFICULT TO HANDLE ADD BEL-RG-01 CASE 01 DISENGAGE,LOOSE 02 DISENGAGE,CLOSE 03 DISENGAGE,TIGHT
					4	
					8	
					23	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DOWNSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
PPA	U	MAA	RELPO01	BELE001	7	EXTENDED DISTANCE STARTS-AT THE END OF A 27 INCH REACH OR MOVE INCLUDES-NECESSARY TIME FOR AN ADDITIONAL TEN INCH REACH OR MOVE ENDS-AT THE END OF THE EXTENDED REACH OR MOVE CONDITION-TIME FOR MOVES AND REACHES GREATER THAN 27 INCHES IN INCREMENTS OF TEN INCHES
FFF	U	MAA	RELEFO1	BELEFO1	7	EYE, FOCUS ON OBJECT STARTS-WITH THE EYES AT REST INCLUDES-THE EYES CONCENTRATING ON A GIVEN CHARACTERISTIC OF AN OBJECT WITHIN THE AREA OF NORMAL VISION LONG ENOUGH TO DISTINGUISH IT THROUGH MUSCULAR ADJUSTMENT OF THE LENS ENDS-WITH THE EYES AT REST
FFF	U	MAA	BELETXX	BELETXX VARIABLE		EYE, TRAVEL STARTS-WHEN EYE BEGINS TO SHIFT AIM OF AXIS OF VISION INCLUDES-MOVEMENT OF THE AIM OF AXIS OF VISION TO NEW VIEWING AREA ENDS-WHEN EYE MOVEMENT STOPS CONDITION-MAXIMUM VALUE 20 TNU 1 CASE 01 EYE TRAVEL OF 1 INCH WITH EYES 15 INCHES FROM OBJECT 6 02 EYE TRAVEL OF 1 FOOT WITH EYES 30 INCHES FROM OBJECT 20 03 EYE TRAVEL 70 DEGREES
FFF	U	MAA	BELRG01	BELRG01	6	REGRASP STARTS-WITH OBJECT IN HAND INCLUDES-SHIFTING THE HOLD OR REALIGNING THE FINGERS ON AN OBJECT TO IMPROVE OR INCREASE CONTROL ENDS-WITH OBJECT IN HAND
NS	U	MAL	MTM-86	BELTO01	27	TIME, OBSERVE STARTS-WITH EYE TRAVEL TO CLOCK INCLUDES-ALL EYE TRAVEL AND EYE FOCUSES NECESSARY TO OBSERVE TIME ENDS-WITH TIME NOTED
FFF	U	MAA	BELTSXX	BELTSXX VARIABLE		TURN WRIST, SHIFT GRASP AND TURN, WITH OR WITHOUT PRESSURE STARTS-WITH HAND ON AN OBJECT INCLUDES-TURNING AN OBJECT WITH A TURN MOTION AND SHIFTING THE GRASP BY RELEASING, TURNING THE HAND BACK, AND GRASPING THE OBJECT ENDS-WITH THE HAND ON THE OBJECT CONDITION-CASES 03 AND 04 INCLUDE AN APA FOR APPLICATION OF PRESSURE. IF AN APB IS REQUIRED, SUPPLEMENT THIS ELEMENT WITH BEL-RG-01 12 CASE 01 TURN TO 90 DEGREES WITHOUT PRESSURE 19 02 TURN 90-180 DEGREES WITHOUT PRESSURE 23 03 TURN TO 90 DEGREES WITH PRESSURE 29 04 TURN 90-180 DEGREES WITH PRESSURE
FFF	U	MAA	BELTWXX	BELTWXX VARIABLE		TURN WRIST, TURN ONLY, WITH OR WITHOUT PRESSURE STARTS-WITH HAND EMPTY OR LOADED INCLUDES-ROTATING THE HAND, WRIST, AND FOREARM ABOUT THE LONG AXIS OF THE FOREARM ENDS-WITH HAND EMPTY OR LOADED CONDITIONS-IF HAND IS LOADED WITH WEIGHT EXCEEDING 2.5 POUNDS, SUPPLEMENT WITH TEL-WF-XX CASES 03 AND 04 INCLUDE AN APA FOR APPLICATION OF PRESSURE. IF AN APB IS REQUIRED, SUPPLEMENT WITH BEL-RG-01. 4 CASE 01 TURN TO 90 DEGREES WITHOUT PRESSURE 7 02 TURN 90-180 DEGREES WITHOUT PRESSURE 15 03 TURN TO 90 DEGREES WITH PRESSURE 18 04 TURN 90-180 DEGREES WITH PRESSURE

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	OWNSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION																		
FFF	U	NAA	BELWXXX	TELWFX	TABLE	WEIGHT FACTOR, FIRST AND ADDITIONAL STARTS-WHEN GRASP IS COMPLETED INCLUDES-ADDITIONAL TIME FOR MOVES WITH WEIGHT IN EXCESS OF 2.5 POUNDS ENDS-WHEN MOVE IS COMPLETED																		
						<table><tr><th>EFFECTIVE NET WEIGHT(POUNDS)</th><th>WEIGHT FIRST, STATIC AND DYNAMIC A</th><th>FACTOR ADDITIONAL, DYNAMIC ONLY B</th></tr><tr><td>2.5-10</td><td>A</td><td>3</td></tr><tr><td>10-20</td><td>B</td><td>8</td></tr><tr><td>20-30</td><td>C</td><td>12</td></tr><tr><td>30-40</td><td>D</td><td>17</td></tr><tr><td>40-50</td><td>E</td><td>22</td></tr></table>	EFFECTIVE NET WEIGHT(POUNDS)	WEIGHT FIRST, STATIC AND DYNAMIC A	FACTOR ADDITIONAL, DYNAMIC ONLY B	2.5-10	A	3	10-20	B	8	20-30	C	12	30-40	D	17	40-50	E	22
EFFECTIVE NET WEIGHT(POUNDS)	WEIGHT FIRST, STATIC AND DYNAMIC A	FACTOR ADDITIONAL, DYNAMIC ONLY B																						
2.5-10	A	3																						
10-20	B	8																						
20-30	C	12																						
30-40	D	17																						
40-50	E	22																						
FFH	U	FAL	HSTTTXX	BEVVTXX	VARIABLE	VEHICLE, TRAVEL STARTS-WHEN VEHICLE STARTS TO MOVE INCLUDES-ALL THE TIME NECESSARY FOR A VEHICLE TO MOVE 100 FEET ENDS-WHEN VEHICLE STOPS MOVING CONDITIONS-VEHICLES MOVE AT AVERAGE SPEEDS LISTED BELOW-TIMES ARE FOR 100 FEET OF TRAVEL- DOES NOT INCLUDE GETTING IN OR OUT OF VEHICLE																		
					1894	CASE 01 MOVE AT ONE M.P.H.																		
					947	02 MOVE AT TWO M.P.H.																		
					631	03 MOVE AT THREE M.P.H.																		
					473	04 MOVE AT FOUR M.P.H.																		
					379	05 MOVE AT FIVE M.P.H.																		
					189	06 MOVE AT 10 M.P.H.																		
					126	07 MOVE AT 15 M.P.H.																		
					95	08 MOVE AT 20 M.P.H.																		
					76	09 MOVE AT 25 M.P.H.																		
					63	10 MOVE AT 30 M.P.H.																		
DL	U	NAL	BENTM07	MEVSF01	177	SEATBELT, FASTEN AND UNFASTEN STARTS-WITH REACH TO SEATBELT INCLUDES-ALL MOTIONS NECESSARY TO FASTEN, TIGHTEN, AND UNFASTEN AND LAY ASIDE A SEAT BELT ENDS-WITH RELEASE OF BELT																		
DL	U	NAL	BENTM09	MEVTM01	521	TRUCK, MOUNT AND DISMOUNT STARTS-WITH REACH TO DOOR HANDLE ON TRUCK CAB INCLUDES-ALL MOTIONS NECESSARY TO OPEN DOOR, CLIMB INTO CAB, CLOSE DOOR, OPEN DOOR, CLIMB OUT OF CAB, AND CLOSE DOOR ENDS-WITH OPERATOR STANDING BESIDE TRUCK CONDITION-APPLICABLE TO 1/2 TO 2 1/2 TON TRUCK																		
DL	U	NOL	BENTM10	MEVTS01	395	TRUCK, START AND STOP STARTS-WITH MOVE FOOT TO CLUTCH INCLUDES-ALL MOTIONS NECESSARY TO START ENGINE, SHIFT INTO GEAR, RELEASE BRAKE, GRASP STEERING WHEEL READY TO DRIVE, SET HAND BRAKE, AND TURN IGNITION OFF ENDS-WITH MOVE FOOT FROM CLUTCH																		
NF	U	NAP	2604	BGNAC01	103	ALIGNMENT, CHECK WITH STRAIGHTEDGE STARTS-WITH STRAIGHTEDGE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO CHECK ALIGNMENT WITH STRAIGHTEDGE AT THREE LOCATIONS ENDS WITH STRAIGHTEDGE IN HAND CONDITION-DOES NOT INCLUDE TIME FOR MOVING PARTS TO ALIGN																		
NF	U	NAP	2603	BGNAC02	120	ALIGNMENT, CHECK WITH LEVEL STARTS-WITH LEVEL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE LEVEL TO OBJECT TO BE CHECKED, ADJUST POSITION OF LEVEL, LOOK AT BUBBLE, AND MOVE LEVEL ASIDE ENDS-WITH LEVEL IN HAND CONDITION-ADJUSTMENT OF PART IS NOT INCLUDED																		

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	U	MAA	BITRR01	BGMRR01	22	RULE, READ TO COMPARE MARK ALIGNMENT STARTS-WITH EYES ON RULE AND RULE IN PLACE INCLUDES-FOCUSING EYES ON RULE AND COMPARING MARK ALIGNMENT ENDS-WITH EYES ON RULE
NF	U	MAF	332	BGMSA01	44	SQUARE, ALIGN TO MARK STARTS-WITH SQUARE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE AND POSITION SQUARE TO MARK ENDS-WITH SQUARE POSITIONED CONDITION-ALIGN TO MARK WITHIN 1/16 INCH OR LESS
NF	U	MAF	2612	BGMSU01	139	SQUARE, USE (PART IN HAND) STARTS-WITH PART AND SQUARE IN SEPARATE HANDS INCLUDES-ALL THE MOTIONS NECESSARY TO PLACE PART AND SQUARE TOGETHER, SIGHT, ALIGN AND CHECK ALIGNMENT ENDS-WITH PART AND SQUARE IN SEPARATE HANDS
NF	U	MAF	2611	BGMSU02	218	SQUARE, USE (PART ON BENCH) STARTS-WITH SQUARE IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE SQUARE TO PART (JOB), POSITION SQUARE, BEND, OBSERVE, ARISE ENDS-WITH SQUARE MOVED AWAY FROM JOB CONDITIONS-CAN BE PERFORMED BY EITHER HAND
DL	U	MAL	BMMH	MGMMNXX	VARIABLE	MATERIAL, MEASURE LENGTH OF STARTS-WITH TAPE MEASURE IN HAND AND TURNING OF THE BODY TO THE END OF THE MATERIAL INCLUDES-ALL THE TIME NECESSARY TO POSITION A TAPE MEASURE AND MEASURE A PIECE OF MATERIAL ENDS-WITH TAPE MEASURE HELD TO THE MATERIAL CASE 01 FIRST TWO FEET OF LENGTH MEASURED 02 EACH ADDITIONAL TWO FEET MEASURED
					115	
					11	
AE	U	MAW	FMGFRXX	MGMRUXX	VARIABLE	RULE (SIX-FOOT FOLDING), USE STARTS-WITH FOLDED RULE IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO UNFOLD EIGHT SECTIONS OF A SIX-FOOT RULE, POSITION RULE TO WORK, CHECK MEASUREMENT, MOVE RULE FROM WORK, AND FOLD RULE ENDS-WITH FOLDED RULE IN HAND CASE 01 FIRST MEASUREMENT 02 EACH ADDITIONAL MEASUREMENT
					481	
					189	
NF	U	MAF	1018	MGMSUXX	VARIABLE	SCALE, USE STARTS-WITH A REACH TO SCALE INCLUDES-ALL THE MOTIONS NECESSARY TO GET, ORIENT, MOVE SCALE TO PART, POSITION END, CHECK, ADJUST, READ AND CHECK READING ENDS-WITH RELEASE OF SCALE CASE 01 READ TO 1/16 INCH ON 36 INCH SCALE 02 READ TO 0.010 INCH ON 36 INCH SCALE 03 READ TO 1/16 INCH ON 12 INCH SCALE 04 READ TO 0.010 INCH ON 12 INCH SCALE
					694	
					926	
					544	
					776	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA OCCUP- QUALITY SOURCE DWMSTOP THU
SOURCE ATION CODE ELEMENT VALUE

OPERATION/ELEMENT DESCRIPTION

MAA U MAA MGTXXXX TGTGXX TABLE

OBJECT, GET AND PLACE
STARTS-WITH REACH TO OBJECT
INCLUDES-ALL MOTIONS NECESSARY TO GET AND
PLACE AN OBJECT
ENDS-WITH RELEASE OF THE OBJECT
CONDITIONS-APPLICABLE TO WEIGHTS OF 2.5 POUNDS
OR LESS(EFFECTIVE NET WEIGHT). TO DETERMINE
DISTANCE CODE TO BE USED, COMPUTE THE AVERAGE
OF THE REACH AND MOVE DISTANCE

DISTANCE(INCHES)
TYPE GET & TO 1 1-3 3-9 9-15 15-21 21-27
CONDITION A B C D E F
OF MOVE

EASY GRASP
VARIABLE A 8 13 22 30 38 47
LOOSE B 16 21 31 40 49 59
CLOSE C 26 31 42 50 60 70
EXACT D 53 58 68 77 86 97
OTHER E 14 17 27 36 44 54
HAND
THREADED F 32 37 47 56 65 75
FASTENER

JUMBLED
W/ONE HAND
VARIABLE G 15 22 30 38 47 55
LOOSE H 23 30 39 48 58 67
CLOSE J 33 40 50 58 69 78
EXACT K 60 67 76 85 95 105
OTHER L 21 26 35 44 53 62
HAND
THREADED M 39 46 55 64 74 83
FASTENER

SIMO
JUMBLED
OBJECT
VARIABLE N 26 33 41 49 58 66
LOOSE P 34 41 50 59 69 78
CLOSE R 44 51 61 69 80 89
EXACT S 71 78 87 96 106 116
THREADED T 76 83 92 101 111 120
FASTENER

FFF U MAA BGTXXXX TGTGXX TABLE

OBJECT, OBTAIN
STARTS-WITH REACH TO AN OBJECT
INCLUDES-REACH TO THE OBJECT, GAIN CONTROL, AND
RELEASE THE OBJECT
ENDS-WHEN OBJECT IS RELEASED

TYPE OF DISTANCE REACHED(INCHES)
GRASP AND TO 1 1-3 3-9 9-15 15-21 21-27
OBJECT A B C D E F
LOCATION

CONTACT
FIXED A 2 4 7 10 12 15
VARIABLE B 2 4 9 13 17 22
EASY GRASP
FIXED C 6 8 11 14 16 19
VARIABLE D 6 8 13 17 21 26
GET ADD. E 17 19
OBJECT

JUMBLED
ONE HAND F 13 17 21 25 30 34
SIMO G 24 28 32 36 41 45
GET ADD. H 24 28
OBJECT
HANDFUL J 33 35 39 44 48 52

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
AF	U	MAO	PRMH001	BIDSS01	65	STAMP(METAL), STRIKE WITH HAMMER STARTS-WITH HAMMER AND STAMP IN HAND INCLUDES-ALL MOTIONS NECESSARY TO PLACE STAMP, STRIKE ONE BLOW WITH HAMMER, MOVE STAMP AND HAMMER ASIDE, AND INSPECT MARKING ENDS-WITH HAMMER AND STAMP IN HAND AND EYES FOCUSED ON MARKING
AF	U	MAO	STAD001	MIDAIXX	VARIABLE	INK(OR PAINT), APPLY TO STENCIL WITH DAUBER STARTS-WITH STENCIL IN POSITION, HELD WITH LEFT HAND INCLUDES-ALL MOTIONS NECESSARY TO APPLY INK TO SIX INCH LENGTH OF STENCIL WITH ONE INCH LETTERS OR TO GET ADDITIONAL INK ON DAUBER ENDS-WITH STENCIL IN LEFT HAND 187 CASE 01 GET DAUBER, APPLY INK TO FIRST SIX INCH LENGTH 112 02 APPLY INK TO ADDITIONAL SIX INCHES WITHOUT RESUPPLY OF INK 55 03 APPLY ADDITIONAL INK TO DAUBER
MAA	U	MAA	OTLSRX	MIDASXX	VARIABLE	STAMP(RUBBER), APPLY STARTS-WITH REACH TO STAMP INCLUDES-ALL THE MOTIONS NECESSARY TO GET STAMP, REMOVE CAP OR COVER, INK STAMP AND APPLY, REPLACE CAP OR COVER AND INCLUDES MOTIONS TO REINK AND APPLY ADDITIONAL TIMES ENDS-WITH ASIDE STAMP 129 CASE 01 FIRST APPLICATION-OBTAIN STAMP FROM, AND ASIDE TO BENCH TOP 168 02 FIRST APPLICATION-OBTAIN STAMP FROM, ASIDE TO POCKET 204 03 FIRST APPLICATION-OBTAIN STAMP FROM, ASIDE TO DRAWER 61 04 EACH ADDITIONAL APPLICATION
FFE	U	MAA	GIDCS01	MIDDC01	126	DATE, CHANGE, ADJUSTABLE RUBBER DATE STAMP STARTS-WITH STAMP IN HAND INCLUDES-ALL MOTIONS NECESSARY TO TURN STAMP TO SEE DATE AND TURN KNURLED WHEEL TO CHANGE TO CURRENT DATE ENDS-WITH STAMP IN HAND CONDITION-TIME IS BASED ON CHANGING DATE ON AVERAGE WORKDAY AND INCLUDES CHANGING DAY, MONTH, AND YEAR ON A PRO RATA BASIS
FFE	U	MAA	GSCDAA3	MIDDIO1	346	DECAL(NON-PRESSURE SENSITIVE), INSTALL STARTS-WITH OBTAIN DECAL INCLUDES-ALL THE MOTIONS NECESSARY TO PUT DECAL INTO WATER, REMOVE AND SLIP FROM BACKING, POSITION, SMOOTH DOWN AND DRY WITH CLOTH ENDS-WITH DECAL IN PLACE, CLOTH ASIDE CONDITIONS-DECALS UP TO 4X6 INCHES PROCESS TIME TO SOAK DECAL IS NOT INCLUDED IN THIS ELEMENT
FFE	U	MAA	OITITKM	MIDDR01	368	DECAL, REMOVE WITH TOOL STARTS-WITH REACH TO TOOL INCLUDES-ALL MOTIONS NECESSARY TO GET TOOL, SCRAPE DECAL OFF AN OBJECT, ASIDE TOOL, WIPE SCRAPINGS IN PILE, PUSH SCRAPINGS INTO OTHER HAND, AND ASIDE SCRAPINGS TO WASTE CAN ENDS-WITH RELEASE OF SCRAPINGS CONDITIONS-TOOL IS RAZOR BLADE OR SIMILAR, APPROXIMATELY EIGHT STROKES 1-3 INCHES LONG ARE REQUIRED TO REMOVE DECAL.

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DMSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
AF	U	MAO	STA1001	MIDIAXX	VARIABLE	INK(OR PAINT),APPLY TO STENCIL W/ROLLER STARTS-WITH STENCIL IN POSITION WITH LEFT HAND REACHING TO ROLLER WITH RIGHT HAND INCLUDES-ALL THE MOTIONS NECESSARY TO GET ROLLER,ROLL OVER PAD TO INK ROLLER THEN COVER STENCIL WITH INK OR PAINT AND ASIDE ROLLER ENDS-WITH STENCIL IN LEFT HAND ROLLER ASIDE CASE 01 1-2 INCH LETTERS SIX INCH LINE 02 EACH ADDITIONAL SIX INCH LINE WITHOUT APPLYING ADDITIONAL INK TO ROLLER 03 APPLY ADDITIONAL INK TO ROLLER
					166	
					91	
					82	
FFE	U	NAA	GSCLA09	MIDPA01	609	PAINT,APPLY TO IDENTIFICATION PLATE STARTS-WITH GET PAINT INCLUDES-ALL THE MOTIONS NECESSARY TO PAINT IDENTIFICATION PLATE AFTER PLATE HAS BEEN STAMPED AND WIPE OFF EXCESS PAINT ENDS-WITH ASIDE WIPE CLOTH
AF	U	MAO	STAS001	MIDSA01	94	STENCIL,APPLY WITH BLOCK STAMP STARTS-WITH REACH TO STAMP INCLUDES-ALL THE MOTIONS NECESSARY TO GET THE BLOCK STAMP,INK THE STAMP,APPLY THE STENCIL AND ASIDE THE STAMP ENDS-WITH THE RELEASE OF THE STAMP
AF	U	MAO	STPS002	MIDSP01	68	STENCIL,POSITION TO SURFACE STARTS-WITH REACH TO STENCIL INCLUDES-ALL THE MOTIONS NECESSARY TO GET STENCIL,POSITION ON SURFACE OF PALLET OR BOX (HORIZONTAL OR VERTICAL) ENDS-WITH LEFT HAND HOLDING STENCIL ON SURFACE TO BE STENCILED,RIGHT HAND FREE TO MOVE TO NEXT OPERATION
NO	U	MAO	LA1E-4	MIDSS01	2800	STAMP(GANG),SET UP(10 MARKERS) STARTS-WITH REACH TO GET STAMP HOLDER INCLUDES-ALL THE MOTIONS NECESSARY TO GET STAMP BOX,SELECT MARKERS,REMOVE MARKERS FROM SLOT,PLACE MARKERS IN HOLDER AND PUSH AGAINST STOP,RELEASE MARKER,REGRAASP HOLDER AND DEPRESS THUMB LEVER TO STOP,RELEASE LEVER ENDS-WITH STAMP SET UP CONDITIONS-DOES NOT INCLUDE TIME TO OBTAIN AND ASIDE STAMP HOLDER
DL	U	NAL	BMTT	MIDTA01	239	TAG,ATTACH TO OBJECT,WITH STRING(TIED) STARTS-WITH REACH TO STRING TAG IN IMMEDIATE WORK AREA INCLUDES-ALL THE TIME NECESSARY TO ATTACH A STRINGED TAG TO AN ITEM BY TYING ENDS-WITH THE RELEASE OF THE TAG AFTER TYING
FFE	U	NAA	MIDT001	MIDTA02	185	TAG,ATTACH TO OBJECT WITH STRING(TAG PULLED THROUGH LOOP) STARTS-WITH TAG IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO ATTACH TAG BY INSERTING STRING THROUGH OBJECT,FORMING LOOP,AND PULLING TAG THROUGH LOOP ENDS-WITH HAND IN CONTACT WITH TAG
FFF	U	NAA	NJPOT04	MIDTA03	249	TAG,ATTACH TO OBJECT BY FORMING SLIP LOOP IN STRING STARTS-WITH REACH TO TAG WITH STRING ATTACHED INCLUDES-ALL MOTIONS NECESSARY TO GET TAG,FORM SLIP LOOP IN STRING,PLACE LOOP OVER OBJECT,AND PULL TIGHT ENDS-WITH RELEASE OF TAG

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
FFE	U	MAA	MIDAT01	MIDTA04	436	TAG, ATTACH STRING STARTS-WITH STRING AND TAG IN HAND INCLUDES-ALL MOTIONS NECESSARY TO TIE KNOT IN STRING, PLACE STRING THROUGH HOLE IN TAG AND SECURE STRING WITH LOOP ENDS-WITH TAG IN HAND CONDITION-DOES NOT INCLUDE ATTACHING TAG TO OBJECT
DL	U	MAL	BMTW	MIDTA05	271	TAG(OR ENVELOPE), ATTACH TO OBJECT WITH WIRE (TWISTED) STARTS-WITH REACH TO WIRE TAG OR ENVELOPE IN IMMEDIATE WORK AREA INCLUDES-ALL THE TIME NECESSARY TO ATTACH A TAG OR AN ENVELOPE WITH WIRE TO AN ITEM ENDS-WITH THE RELEASE OF THE TAG AFTER ATTACHING
FFE	U	MAA	MIDT002	MIDTA06	317	TAG, ATTACH TO OBJECT WITH WIRE(LOOPED AND TWISTED) STARTS-WITH TAG IN HAND INCLUDES-ALL MOTIONS NECESSARY TO ATTACH TAG WITH DOUBLE WIRE BY THREADING WIRE THROUGH OBJECT, BENDING OVER, AND TWISTING ENDS-WITH HAND IN CONTACT WITH WIRE
FFE	U	MAA	MIDAT02	MIDTA07	356	TAG, ATTACH WIRE STARTS-WITH WIRE AND TAG IN HANDS INCLUDES-ALL MOTIONS NECESSARY TO ATTACH WIRE TO TAG ENDS-WITH TAG IN HAND CONDITIONS-DOES NOT INCLUDE ATTACHING TAG TO OBJECT
FFF	U	MAA	MJPDTEX	MIDTRXX	VARIABLE	TAG, REMOVE FROM OBJECT STARTS-WITH GET TAG INCLUDES-ALL MOTIONS NECESSARY TO REMOVE TAG FROM OBJECT ENDS-WITH PLACE TAG ASIDE
				211		CASE 01 UNTWIST WIRE AND REMOVE TAG FROM OBJECT
				130		02 GET WIRE CUTTERS, CUT WIRE, AND REMOVE TAG FROM OBJECT
				174		03 OPEN SLIP LOOP AND SLIDE TAG THROUGH LOOP TO REMOVE FROM OBJECT
				73		04 OPEN LOOP AND SLIP LOOP FROM OBJECT TO REMOVE TAG
FFE	U	MAA	IOTAOA1	SIDDI01	468	DECAL(PRESSURE SENSITIVE), INSTALL, TO 1.5 X 2.5 INCHES STARTS-WITH GET DECAL INCLUDES-ALL MOTIONS NECESSARY TO REMOVE BACKING FROM DECAL WITH FINGERS, GET DAMP RAG, WIPE SURFACE WITH RAG, ASIDE RAG, PLACE DECAL ON SURFACE, RUB DECAL WITH FINGERS TO SEAT AND SMOOTH, GET DRY RAG, AND USE DRY RAG TO BLOT MOISTURE FROM SURFACE ENDS-WITH ASIDE RAG
FFE	U	MAA	GIDASA1	SIDSA01	1416	STENCIL, APPLY, PAINT, AND REMOVE STARTS-WITH REACH TO ROLL OF TAPE INCLUDES-ALL MOTIONS NECESSARY TO GET ROLL OF TAPE, UNROLL AND TEAR OFF FOUR PIECES OF TAPE (APPROXIMATELY SIX INCHES LONG), LOCATE STENCIL ON SURFACE, AFFIX TAPE TO STENCIL, SMOOTH TAPE ON STENCIL, GET SPRAY GUN, SPRAY STENCIL, ASIDE SPRAY GUN, AND REMOVE STENCIL ENDS-WITH ASIDE STENCIL

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	U	NAA	SPLDM01	SIDTA01	640	TAPE, ATTACH TO PART AND WRITE IDENTIFICATION ON TAPE STARTS-WITH REACH TO GET ROLL OF TAPE INCLUDES-ALL THE MOTIONS NECESSARY TO PICK UP ROLL OF TAPE, ROTATE ROLL TO FIND END, LIFT END OF TAPE FROM ROLL, PULL TAPE (TWO INCHES), TEAR OFF PIECE, PLACE TAPE ON PART, GET PENCIL FROM POCKET, WRITE DIGITS (6) ON TAPE, RETURN PENCIL TO POCKET ENDS-WITH RELEASE OF PENCIL
FFH	U	NAA	BITB101	BITB101	20	GAUGE (BORE INDICATOR), USE STARTS-WITH GAUGE IN PLACE AND READY FOR CHECKING INCLUDES-ALL MOTIONS NECESSARY TO CHECK BORE DIAMETER PER POSITION OR SPOT ENDS-WITH GAUGE LOCATED IN PART
NO	U	NAD	LGAU1L2	BITCA01	79	CALIPER (VERNIER), ADJUST SLIDING HEAD, FOUR INCHES STARTS-WITH CALIPER IN HANDS INCLUDES-ALL MOTIONS NECESSARY TO LOOSEN LOCK NUT, MOVE HEAD FOUR INCHES, AND TIGHTEN LOCK NUT ENDS-WITH CALIPER IN HAND
MF	U	MAF	1011	BITCOXX VARIABLE	48 224	CALIPER, OPEN OR CLOSE STARTS-WITH CALIPERS IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO OPEN OR CLOSE CALIPER ENDS-WITH CALIPER IN HAND CASE 01 FIRM JOINT, 24 INCH CALIPER-OPEN 20 IN. 02 SPRING, EIGHT INCH CALIPER-OPEN OR CLOSE FOUR INCHES BY ROLLING ADJUSTING NUT ON FINGER
MF	U	MAF	3776	BITCSXX VARIABLE	391 215	CALIPER, SET WITH SCALE STARTS-WITH CALIPER AND SCALE IN SEPARATE HANDS INCLUDES-ALL THE MOTIONS NECESSARY TO SET CALIPER WITH A SCALE ENDS-WITH CALIPER AND SCALE IN SEPARATE HANDS CONDITIONS-SET WITHIN 1/16 INCH CASE 01 FIRM JOINT, 24 INCH CALIPER 02 SPRING, 8 INCH CALIPER
MF	U	MAF	4132	BITCUXX VARIABLE	405 363 875 539 293 592	CALIPER, USE STARTS-WITH CALIPER IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE CALIPERS TO WORK AND USE AS INDICATED ENDS-WITH MOVE OF CALIPERS AWAY FROM PART AFTER GAUGING CONDITIONS-GAUGE ONE DIMENSION ONLY CASE 01 SPRING INSIDE CALIPER-DIMENSION UP TO EIGHT INCHES 02 SPRING OUTSIDE CALIPER-DIMENSION UP TO EIGHT INCHES 03 24 INCH FIRM JOINT, INSIDE, CALIPER 04 24 INCH FIRM JOINT, OUTSIDE CALIPER 05 VERNIER CALIPER-DIMENSION UNDER 12 INCHES 06 VERNIER CALIPER-DIMENSION OVER 12 INCHES

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	J	MAA	BITVCO1	BITCU07	92	CALIPER(VERNIER),USE TO MAKE ADDITIONAL CHECK ON INSIDE OR OUTSIDE DIMENSION STARTS-WITH CALIPER IN/ON OBJECT TO BE MEASURED INCLUDES-ALL MOTIONS NECESSARY TO ADJUST CALIPER TO OBJECT,ADJUST VERNIER,REMOVE CALIPER TO A POSITION FOR READING,AND LOOSENING CLAMP SCREW IN PREPARATION FOR NEXT USE ENDS-WITH CALIPER IN HAND CONDITION-DOES NOT INCLUDE TIME TO READ
FFE	U	MAA	KITMCC1	BITCU08	211	CALIPER,USE,CHECK OUTSIDE DIAMETER WITH PRE-SET SPRING CALIPER STARTS-WITH CALIPER IN HAND READY TO PLACE TO PART INCLUDES-ALL THE MOTIONS NECESSARY TO PLACE CALIPER TO PART,ALIGN AND CHECK FOR FEEL ENDS-WITH CALIPER ON PART CONDITIONS-DOES NOT INCLUDE TIME TO ADJUST OR CHECK CALIPER WITH SCALE
FFH	U	MAA	BITD101	BITD101	26	INDICATOR(DIAL),USE TO CHECK POSITION OR SPOT STARTS-WITH PART TO GAUGE AND READY FOR CHECKING INCLUDES-ALL MOTIONS NECESSARY TO CHECK ONE POSITION OR SPOT ENDS-WITH PART IN CONTACT WITH GAUGE
MAA	U	MAA	BITETXX	BITETXX	VARIABLE	EYE TIMES,SHIFT FROM POINT TO POINT STARTS-WHEN EYES BEGIN TO SHIFT FROM ONE POINT TO ANOTHER INCLUDES-TRAVEL OF THE EYES BETWEEN TWO POINTS AND FOCUSING ON THE SECOND POINT ENDS-WHEN THE EYES FOCUS ON THE SECOND POINT CONDITIONS-MAXIMUM EYE TRAVEL IS 20 INCHES AT 15.2 INCHES FROM PART CASE 01 LESS THAN 1 INCH TRAVEL 02 1-3 INCHES TRAVEL 03 3-9 INCHES TRAVEL 04 9-15 INCHES TRAVEL 05 15-21 INCHES TRAVEL 06 21-27 INCHES TRAVEL
FFH	U	MAA	BITFE01	BITFE01	28	GAUGE(FEELER),USE TO CHECK CLEARANCE,PER SPOT, POSITION,OR FIRST INCH STARTS-WITH GAUGE TO PART READY FOR CHECKING INCLUDES-ALL MOTIONS NECESSARY TO CHECK CLEARANCE ENDS-WITH GAUGE IN CONTACT WITH PART
FFD	U	MAA	BITFU02	BITFE02	9	GAUGE(FEELER),USE TO CHECK CLEARANCE, ADDITIONAL INCH STARTS-WITH GAUGE IN POSITION TO CHECK CLEARANCE INCLUDES-ALL MOTIONS NECESSARY TO MOVE FEELER ALONG GAP AND FEEL FOR CLEARANCE ENDS-WITH GAUGE IN CONTACT WITH PART
FFD	U	MAA	BITFS01	BITFE03	89	GAUGE(FEELER),SELECT FIRST LEAF FROM FAN TYPE FEELER IN METAL CASE STARTS-WITH GAUGE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO FAN LEAVES, SELECT LEAF,AND FOLD OTHER LEAVES INTO CASE ENDS-WITH GAUGE IN HAND

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	U	MAA	BITFS02	BITFE04	38	GAUGE(FEELER),SELECT ADDITIONAL LEAF FROM FAN TYPE FEELER,LEAVES PREVIOUSLY MOVED OUT OF CASE STARTS-WITH GAUGE IN HAND AND LEAVES OUT OF CASE INCLUDES-ALL MOTIONS NECESSARY TO SPREAD LEAVES AND SELECT LEAF ENDS-WITH GAUGE IN HAND
FFH	U	MAA	BITFP01	BITFP01	8	GAUGE(FLUSH PIN),USE STARTS-WITH GAUGE IN PLACE FOR CHECKING INCLUDES-ALL MOTIONS NECESSARY TO CHECK POSITION OF GAUGE WITH FINGERS ENDS-WITH GAUGE IN CONTACT WITH PART
FF	U	MAA	BITGO01	BITGU01	20	GAUGE(GRINDER),USE-CHECK OUTSIDE DIAMETER STARTS-WITH HAND ON GAUGE INCLUDES-ALL MOTIONS NECESSARY TO PLACE GAUGE IN POSITION FOR GRINDING ENDS-WITH RELEASE OF GAUGE
FFD	U	MAA	BITDS02	BITGS01	166	GAUGE(PASSAMETER),SET GAUGE WITH GAUGE BLOCK STARTS-WITH HANDS ON GAUGE,GAUGE BLOCK LYING BY GAUGE INCLUDES-ALL MOTIONS NECESSARY TO SET GAUGE TO GAUGE BLOCK DIMENSION ENDS-WITH RELEASE OF GAUGE BLOCK,GAUGE IN HAND
MF	U	MAF	1024	BITGU01	428	GAUGE(RING GAUGE), USE STARTS-WITH GAUGE IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO TRY A RING GAUGE BY MOVING GAUGE TO JOB,POSITION ON JOB,FIT BY FORCE,DISENGAGE AND RETURN TO BODY ENDS-WITH GAUGE RETURNED TO BODY
AE	U	MAW	FINVE01	BITIR01	44	INDICATOR(DIAL),READ STARTS-WITH EYES AT REST ON INSTRUMENT TO BE READ INCLUDES-FOCUSING EYES TO VERIFY INSTRUMENT SETTING OR READING ENDS-WITH EYES AT REST ON INSTRUMENT CONDITION-ALSO APPLICABLE TO READING SIGHT GUAGES
FFD	U	MAA	BITDS01	BITIS01	49	INDICATOR(DIAL),SET TO ZERO STARTS-WITH HANDS ON INDICATOR INCLUDES-ALL MOTIONS NECESSARY TO SET DIAL INDICATOR TO ZERO ENDS-WITH HANDS ON INDICATOR CONDITION-APPLICABLE TO DIAL INDICATOR WITH FRICTION RING OR WITH UNLOCKED LOCK SCREW
FFD	U	MAA	BITDU01	BITIU01	14	INDICATOR(DIAL),USE TO CHECK HEIGHT ON FLAT SURFACE,FIRST INCH STARTS-WITH GAUGE IN HAND NEAR PART INCLUDES-ALL MOTIONS NECESSARY TO CHECK SURFACE,FIRST INCH ENDS-WITH GAUGE IN POSITION TO PLACE ASIDE
FFD	U	MAA	BITDU02	BITIU02	10	INDICATOR(DIAL),USE TO CHECK HEIGHT ON FLAT SURFACE STARTS-WITH GAUGE IN POSITION TO MAKE CHECK INCLUDES-ALL MOTIONS NECESSARY TO CHECK ADDITIONAL ONE INCH ON SURFACE ENDS-WITH GAUGE IN POSITION TO PLACE ASIDE
FFH	U	MAA	BITMR01	BITMRQ1	95	INDICATOR(DIAL),USE TO CHECK MANDREL RUNOUT PER DIAMETER STARTS-WITH GAUGE POSITIONED TO DIAMETER AND HAND ON PART INCLUDES-ALL MOTIONS NECESSARY TO TURN PART TO CHECK RUN OUT OF ONE DIAMETER ENDS-WITH HAND ON PART

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	U	MAF	2589	BITMUXX VARIABLE	560 252	MICROMETER,USE,READ SCALE STARTS-WITH MICROMETER IN HAND INCLUDES-ALL THE EYE MOTIONS(TRAVEL AND FOCUS) NECESSARY TO READ SCALE ENDS-WHEN READING IS MADE CASE 01 VERNIER BEVEL PROTRACTOR 02 MICROMETER TO .001
FFD	U	MAA	BITMS01	BITMU03	140	MICROMETER,USE,CHANGE POSITION OF THIMBLE FOR MAKING CHECK OF SIZE DIFFERENT FROM PRIOR CHECK STARTS-WITH MICROMETER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO SCREW THIMBLE DOWN 14 TURNS,PLACE TO PART,AND MAKE TWO ADDITIONAL TURNS ENDS-WITH MICROMETER OVER PART,READY TO MAKE FINAL ADJUSTMENT CONDITION-APPLICABLE TO OUTSIDE,INSIDE, OR DEPTH MICROMETER UP TO 6 INCH CAPACITY
FFD	U	MAA	BITMU01	BITMU04	22	MICROMETER,USE TO CHECK PART AFTER CHANGE SETTING,BIT-MU-03 STARTS-WITH MICROMETER IN POSITION FOR CHECK INCLUDES-ALL MOTIONS NECESSARY TO ADJUST MICROMETER TO PART,MOVE OFF PART,AND MOVE INTO POSITION FOR READING ENDS-WITH MICROMETER IN HAND CONDITION-APPLICABLE TO OUTSIDE,INSIDE,OR DEPTH MICROMETER UP TO 6-INCH CAPACITY
FFD	U	MAA	BITMU02	BITMU05	74	MICROMETER,USE,TO CHECK PART(CHANGE SETTING,BIT-MU-03,NOT NECESSARY) STARTS-WITH MICROMETER IN PLACE(APPROXIMATE) READY TO POSITION INCLUDES-ALL MOTIONS NECESSARY TO POSITION MICROMETER ON PART,SET,AND MOVE INTO POSITION FOR READING ENDS-WITH MICROMETER IN HAND CONDITION-APPLICABLE TO OUTSIDE,INSIDE,OR DEPTH MICROMETER UP TO 6-INCH CAPACITY
FFH	U	MAA	BITPG01	BITPG01	31	GAUGE(PLUG),CHECK HOLE FOR SIZE ONLY WITH GO END STARTS-WITH GAUGE IN HAND AT PART INCLUDES-ALL MOTIONS NECESSARY TO INSERT GAUGE CHECK SIZE OF HOLE,AND REMOVE GAUGE ENDS-WITH GAUGE IN HAND
FFH	U	MAA	BITPG02	BITPG02	27	GAUGE(PLUG),CHECK HOLE FOR SIZE ONLY WITH NO GO END STARTS-WITH GAUGE IN HAND AT PART INCLUDES-ALL MOTIONS NECESSARY TO POSITION GAUGE TO HOLE AND DETERMINE IT CANNOT BE INSERTED ENDS-WITH GAUGE IN HAND
FFH	U	MAA	BITPG03	BITPG03	34	GAUGE(PLUG),CHECK FOR SIZE AND DEPTH STARTS-WITH GAUGE IN HAND AT PART INCLUDES-ALL MOTIONS NECESSARY TO INSERT GAUGE,CHECK SIZE AND DEPTH AND REMOVE GAUGE ENDS-WITH GAUGE IN HAND

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
MAJ	U	MAA	MITEVXX	BITREXX	VARIABLE	<p>ROD, EXAMINE VISUALLY WITH NAKED EYE STARTS-WITH OBJECT IN POSITION, READY FOR EXAMINATION INCLUDES-ALL MOTIONS NECESSARY TO VISUALLY EXAMINE SURFACE CONDITION OF THE OBJECT ENDS-WITH DETERMINATION OF SURFACE CONDITION CONDITIONS-APPLIES TO OTHER SIMILAR OBJECTS SUCH AS SCREWS AND STUDS, APPLIES ONLY TO YES/ NO TYPE EVALUATION NOT REQUIRING PROLONGED MENTAL CONSIDERATION WHICH WOULD LIMIT OUT EYE FOCUS AND EYE TRAVEL, DOES NOT INCLUDE GET, PLACE OR LAY ASIDE OBJECT. CASE 01 UP TO 1 INCH LENGTH 42 02 1 TO 3 INCH LENGTH 58 03 3 TO 5 INCH LENGTH 76 04 5 TO 7 INCH LENGTH 94 05 7 TO 10 INCH LENGTH 114</p>
FFH	U	MAA	BITSN01	BITSN01	26	<p>GAUGE(SNAP), USE TO CHECK DIAMETER OF PART STARTS-WITH GAUGE IN HAND AT PART INCLUDES-ALL MOTIONS NECESSARY TO CHECK PART, PER POSITION OR SPOT ENDS-WITH GAUGE IN CONTACT WITH PART</p>
MAJ	U	MAA	MITEVXX	BITWEXX	VARIABLE	<p>WIRE, EXAMINE VISUALLY, SAFETY, TWISTED STARTS-WITH OBJECT IN POSITION READY FOR EXAMINATION INCLUDES-ALL MOTIONS NECESSARY TO VISUALLY EXAMINE THE SAFETY WIRE ENDS-WITH DETERMINATION OF SAFETY WIRE CONDITION CONDITIONS-APPLIES ONLY TO YES/NO TYPE EVALUATION NOT REQUIRING PROLONGED MENTAL CONSIDERATION WHICH WOULD LIMIT OUT EYE FOCUS AND EYE TRAVEL, DOES NOT INCLUDE GET, PLACE, OR LAY ASIDE OBJECT CASE 01 UP TO 1 INCH LENGTH 31 02 1 TO 3 INCH LENGTH 39 03 3 TO 5 INCH LENGTH 47 04 5 TO 7 INCH LENGTH 55 05 7 TO 10 INCH LENGTH 63</p>
FF	U	MAA	CVMB01	MITBC01	561	<p>BATTERY, CHECK WATER LEVEL, 12 VOLT WATER TYPE BATTERY WITH SIX CELLS STARTS-WITH REACH TO FIRST CELL CAP INCLUDES-ALL MOTIONS NECESSARY TO REMOVE EACH OF SIX CAPS, OBSERVE WATER LEVEL, AND REPLACE CAPS ENDS-WITH RELEASE OF LAST CAP CONDITIONS-APPLICABLE TO BATTERY WITH INDIVIDUAL PULL-UP CAPS, SERVICING BATTERY NOT INCLUDED</p>
NAA	U	TUA	OACCH13	MITCA01	165	<p>CONTROL, ADJUST AND OBTAIN DIAL READING STARTS-WITH REACH TO CONTROL INCLUDES-ALL THE MOTIONS NECESSARY TO ADJUST KNOB, OBTAIN A READING AND READ ENDS-WITH RELEASE CONTROL CONDITIONS-INCLUDES DELAY WHILE INDICATOR ATTAINS POSITION TO BE READ</p>
FFQ	U	MAA	KERKSA9	MITCA02	79	<p>CONTRUL, ADJUST KNOB/DIAL AND READ STARTS-WITH REACH TO KNOB INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP AND TURN KNOB/DIAL TO EXACT SETTING, EYES TRAVEL TO AND FOCUS TO READ, ADJUST KNOB, HAND ASIDE ENDS-WITH HAND ASIDE</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	U	MAA	KERKSBI	MITCA03	209	CONTROL, ADJUST WITH SCREWDRIVER, READ OSCILLOSCOPE STARTS-WITH REACH TO OBTAIN SCREWDRIVER INCLUDES-ALL THE MOTIONS NECESSARY TO ADJUST CONTROL WITH SCREWDRIVER AND READ OSCILLOSCOPE ENDS-WITH ASIDE SCREWDRIVER CONDITIONS-APPLICABLE TO ADJUSTING POTENTI- UMETER, SLUG CAPACITOR, OR SIMILAR
FFD	U	MAA	KERKS83	MITCA04	161	CONTROL, ADJUST, ZERO METER WITH TOOL STARTS-WITH REACH TO TOOL INCLUDES-ALL THE MOTIONS NECESSARY TO GET SCREWDRIVER OR SPECIAL TOOL, SET METER POINTER TO ZERO, READ METER ENDS-WITH SCREWDRIVER/TOOL ASIDE
NAA	U	MAA	OGMGTX	MITGUX	VARIABLE	GAUGE (TELESCOPE AND OUTSIDE MICROMETER), USE STARTS-WITH REACH TO TELESCOPE GAUGE INCLUDES-ALL THE MOTIONS NECESSARY TO GET, COLLAPSE, INSERT, RELEASE TO SURFACE, LOCK AND REMOVE GAUGE, GET OUTSIDE MICROMETER, ADJUST TO TELESCOPE GAUGE, READ DIMENSION AND ASIDE GAUGE AND MICROMETER. EACH ADDITIONAL GAUGING INCLUDES COLLAPSING THE GAUGE, INSERTING IN OPENING, LOCKING, REMOVING AND MAKING A READING WITH A MICROMETER ENDS-WITH ASIDE OF GAUGE AND/OR MICROMETER CONDITIONS-READ TO .0001 INCH CASE 01 FIRST GAUGING 02 ADDITIONAL GAUGING
NF	U	MAF	3790	MITGU03	1100	GAUGE (HEIGHT GAUGE), USE STARTS-WITH REACH TO GAUGE INCLUDES-ALL THE MOTIONS NECESSARY TO OBTAIN GAUGE, PREPARE TABLE FOR USE, SET/ADJUST GAUGE, MOVE TO JOB, CHECK FEEL, MOVE GAUGE FROM JOB, AND READ ENDS-WITH GAUGE IN HAND CONDITIONS-GAUGE ONE DIMENSION INCLUDES READING (BIT-MU-01)
NF	U	MAF	3796	MITGU04	889	GAUGE (DEPTH VERNIER), USE STARTS-WITH VERNIER IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO POSITION VERNIER TO WORK, ADJUST, LOCK, MOVE FROM WORK, AND READ ENDS-WITH VERNIER IN HAND CONDITIONS-MEASURE ONE DIMENSION ONLY INCLUDES READING (BIT-MU-01)
FFE	U	MAA	GITMCA7	MITGU05	126	GAUGE (PLUG GAUGE, GO/NO GO), USE STARTS-WITH REACH TO PART INCLUDES-ALL THE MOTIONS NECESSARY TO OBTAIN AND POSITION PART, OBTAIN PLUG GAUGE AND MAKE CHECKS WITH BOTH GO AND NO GO ENDS ENDS-WITH ASIDE GAUGE CONDITIONS-GAUGE PARTS UP TO 30 POUNDS
FF	U	MAA	GITMC81	MITGU06	205	GAUGE (FEELER), USE, GAUGE CLEARANCE OR END PLAY STARTS-WITH REACH TO GET GAUGE INCLUDES-ALL THE MOTIONS NECESSARY TO GET A FEELER GAUGE, SELECT LEAF AND CHECK END PLAY OR CLEARANCE ENDS-WITH GAUGE ASIDE

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTD ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
NO	U	MAO	LM1J3	MITIA01	182	INDICATOR, ADJUST TO WORK, MAGNETIC BASE INDICATOR STARTS-WITH REACH TO INDICATOR BASE INCLUDES-ALL MOTIONS NECESSARY TO MOVE BASE TO SURFACE, HOLD BASE, MOVE BASE ARM TO CORRECT POSITION, HOLD BASE ARM, LOOSEN SCREW ON INDICATOR ARM, ADJUST ARM TO CORRECT POSITION, HOLD ARM, AND TIGHTEN SCREW ENDS-WITH SIMO RELEASE OF SCREW AND ARM
NF	U	MAF	4063	MITIS01	62	INDICATOR(DIAL), SET STARTS-WITH REACH TO DIAL INCLUDES-ALL THE MOTIONS NECESSARY TO SET AN INDICATOR DIAL BY MOVING DIAL BY HAND ENDS-WITH RELEASE OF DIAL
MAA	U	MAA	OGMMDXX	MITMXX	VARIABLE	MICROMETER, MEASURE DEPTH STARTS-WITH REACH TO MICROMETER INCLUDES-ALL THE MOTIONS NECESSARY TO ADJUST MICROMETER TO SURFACE AND READ FIRST DIMENSION (CASE 01). ALSO INCLUDES THE MOTIONS NECESSARY TO MAKE EACH ADDITIONAL MEASUREMENT OF SIMILAR OBJECT(CASE 02) ENDS-WITH ASIDE MICROMETER(CASE 01) OR WITH READ MICROMETER(CASE 02)-MEASURE TO SIX INCHES CONDITIONS-TIME FOR CHANGING HANDREL ONCE FOR EACH TEN OCCURENCES OF CASE 01 INCLUDED. READ TO .0001 INCH CASE 01 FIRST MEASUREMENT 02 EACH ADDITIONAL MEASUREMENT
					455 182	
NF	U	MAF	3782	MITMUXX	VARIABLE	MICROMETER, USE STARTS-WITH A REACH TO OBTAIN THE MICROMETER INCLUDES-ALL THE MOTIONS NECESSARY TO OBTAIN AND USE A MICROMETER ENDS-WITH MICROMETER IN HAND READY TO READ CONDITIONS-DOES NOT INCLUDE READ-FOR GAUGING ONE DIMENSION ONLY CASE 01 OUTSIDE MICROMETER-DIMENSION UP TO FOUR INCHES 02 OUTSIDE MICROMETER-DIMENSION FOUR TO 12 INCHES 03 OUTSIDE MICROMETER-DIMENSION OVER 12 INCHES
					229 286 458	
FFE	U	MAA	GITNCA1	MITMU04	427	MICROMETER, USE-CHECK OBJECTS OF DIFFERENT SIZE STARTS-WITH MICROMETER IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO MEASURE INSIDE OR OUTSIDE DIAMETER IN THREE POSITIONS ON EACH SURFACE ENDS-WITH MICROMETER IN HAND CONDITIONS-APPLICABLE FOR MICROMETERS UP TO SIX INCHES-DOES NOT INCLUDE READING
.FFE	U	MAA	GITNCA2	MITMU05	380	MICROMETER, USE-CHECK OBJECTS OF SAME SIZE STARTS-WITH MICROMETER IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO MEASURE INSIDE OR OUTSIDE DIAMETER IN THREE POSITIONS ON EACH SURFACE ENDS-WITH MICROMETER IN HAND CONDITIONS-APPLICABLE FOR MICROMETERS UP TO SIX INCHES-DOES NOT INCLUDE READING
NF	U	MAF	1020	MITMU06	343	MICROMETER, USE(REMOVE AND REPLACE EXTENSION ON INSIDE MICROMETER) STARTS-WITH MICROMETER IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO REMOVE ONE EXTENSION, PLACE IN CASE, GET REPLACEMENT EXTENSION, ATTACH TO MICROMETER AND SECURE ENDS-WITH MICROMETER IN HAND

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION																																																																																																																					
FFE	U	MAA	KITIMAI	NITHU07	265	MICROMETER,USE,CHECK INSIDE DIAMETER OR BETWEEN TWO SURFACES STARTS-WITH INSIDE MICROMETER IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO GET SPINDLE WITH FINGERS,RUN DOWN SPINDLE,PLACE BETWEEN SURFACES,RUN UP SPINDLE,MOVE TO CHECK FOR CONTACT,MAKE MINUTE ADJUSTMENT ENDS-WITH FINAL ADJUSTMENT MADE,MICROMETER IN HAND AND IN CONTACT WITH PART CONDITIONS-DOES NOT INCLUDE READING TIME. MEASURE ONE SPOT ONLY.																																																																																																																					
AE	U	MAW	PHGGS03	NITHND1	185	WIRE,MEASURE FOR GAGE STARTS-WITH WIRE GAUGE IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE THE WIRE GAUGE TO WIRE,POSITION GAUGE TO WIRE,MOVE BACK AND FORTH TO CHECK,CHECK WITH TWO ADDITIONAL GAUGES,READ GAUGE TO DETERMINE WIRE GAGE,MOVE GAUGE AWAY FROM WIRE ENDS-WITH GAUGE CLEAR OF WIRE																																																																																																																					
FFH	U	MAA	TITEAXX	TITETXX	TABLE	EYE,TRAVEL FROM POINT TO POINT TO INSPECT STARTS-AFTER EYES HAVE SHIFTED TO FIRST POINT TO BE INSPECTED INCLUDES-ONE EYE FOCUS PER POINT INSPECTED PLUS EYE TRAVEL BETWEEN POINTS ENDS-WHEN EYES ARE READY TO SHIFT TO A NEW INSPECTION AREA OR AWAY DISTANCE BETWEEN POINTS(INCHES) <table><tr><th>NUMBER</th><th>1</th><th>2</th><th>4</th><th>6</th><th>10</th><th>14</th><th>18</th><th>20</th></tr><tr><th>OF</th><th>A</th><th>B</th><th>C</th><th>D</th><th>E</th><th>F</th><th>G</th><th>H</th></tr><tr><td>POINTS</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>A</td><td>6</td><td>9</td><td>11</td><td>13</td><td>17</td><td>21</td><td>25</td></tr><tr><td>2</td><td>B</td><td>15</td><td>16</td><td>18</td><td>20</td><td>24</td><td>28</td><td>32</td></tr><tr><td>3</td><td>C</td><td>23</td><td>25</td><td>29</td><td>33</td><td>41</td><td>49</td><td>57</td></tr><tr><td>4</td><td>D</td><td>31</td><td>34</td><td>40</td><td>46</td><td>58</td><td>70</td><td>82</td></tr><tr><td>5</td><td>E</td><td>39</td><td>43</td><td>51</td><td>59</td><td>75</td><td>91</td><td>107</td></tr><tr><td>6</td><td>F</td><td>47</td><td>52</td><td>62</td><td>72</td><td>92</td><td>112</td><td>132</td></tr><tr><td>7</td><td>G</td><td>55</td><td>61</td><td>73</td><td>85</td><td>109</td><td>133</td><td>157</td></tr><tr><td>8</td><td>H</td><td>63</td><td>70</td><td>84</td><td>98</td><td>126</td><td>154</td><td>182</td></tr><tr><td>9</td><td>J</td><td>71</td><td>79</td><td>95</td><td>111</td><td>143</td><td>175</td><td>207</td></tr><tr><td>10</td><td>K</td><td>79</td><td>88</td><td>106</td><td>124</td><td>160</td><td>196</td><td>232</td></tr></table>	NUMBER	1	2	4	6	10	14	18	20	OF	A	B	C	D	E	F	G	H	POINTS									1	A	6	9	11	13	17	21	25	2	B	15	16	18	20	24	28	32	3	C	23	25	29	33	41	49	57	4	D	31	34	40	46	58	70	82	5	E	39	43	51	59	75	91	107	6	F	47	52	62	72	92	112	132	7	G	55	61	73	85	109	133	157	8	H	63	70	84	98	126	154	182	9	J	71	79	95	111	143	175	207	10	K	79	88	106	124	160	196	232
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MAA	U	MAA	OSNGFXZ	TITGUXZ	TABLE	GAUGE(FEELER WITH LOCKNUT),USE STARTS-WITH REACH TO FEELER GAUGE INCLUDES-ALL THE MOTIONS NECESSARY TO GET GAUGE,LOOSEN LOCKNUT,SPREAD LEAVES,SELECT LEAF FOLD REMIANDER IN CASE,INSERT LEAF IN OPENING,CHECK CLEARANCE,OBTAIN RAG AND CLEAN GAUGE WHEN NECESSARY,FOLD LEAF USED INTO CASE ENDS-WITH LAY ASIDE FEELER GAUGE OR WITH GAUGE IN HAND AFTER ADDITIONAL GAUGING <table><tr><th>CONDITION</th><th>GAUGE</th><th>FIRST</th><th>ADDITIONAL</th><th>ADDITIONAL</th></tr><tr><th>OF OBJECT</th><th>OF OBJECT</th><th>OBJECT</th><th>OBJECT-SAME</th><th>MEASURE-SAME</th></tr><tr><th></th><th></th><th></th><th>LEAF</th><th>OBJECT-DIFF.</th></tr><tr><th></th><th></th><th></th><th></th><th>LEAF</th></tr><tr><td>CLEAN,DRY</td><td>A</td><td>432</td><td>8</td><td>C</td></tr><tr><td></td><td></td><td></td><td>123</td><td>294</td></tr><tr><td>DIRTY,OILY</td><td>B</td><td>521</td><td>212</td><td>383</td></tr></table>	CONDITION	GAUGE	FIRST	ADDITIONAL	ADDITIONAL	OF OBJECT	OF OBJECT	OBJECT	OBJECT-SAME	MEASURE-SAME				LEAF	OBJECT-DIFF.					LEAF	CLEAN,DRY	A	432	8	C				123	294	DIRTY,OILY	B	521	212	383																																																																																		
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DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATTN	QUALITY	SOURCE CODE	OWNSTDP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
MAA	U	MAA	OGMNOXX	TITMXX	TABLE	<p>MICROMETER(OUTSIDE), MEASURE DIMENSION AND READ STARTS-WITH REACH TO MICROMETER(FIRST MEASURE) OR REPOSITION MICROMETER OR OBJECT(ADDITIONAL MEASUREMENTS) INCLUDES-ALL THE MOTIONS NECESSARY TO OPEN THE MICROMETER, SELECT OBJECT TO BE MEASURED, ADJUST MICROMETER TO SURFACE AND READ MICROMETER FOR FIRST MEASUREMENT AND FOR ADDITIONAL MEASURE- MENTS OF SAME OR SIMILAR OBJECTS WHEN REQUIRED ENDS-WITH MICROMETER ASIDE CONDITIONS-READ TO .0001 INCH</p>

SURFACE CONDITION AND DIMENSIONS	FIRST MEASURE	ADDITIONAL MEASUREMENT
FLAT-UP TO 3 INCHES	A 530	B 158
CYLINDRICAL-UP TO FIVE INCHES	B 642	225

DATA SOURCE	OCCUP- ATTN	QUALITY	SOURCE CODE	OWNSTDP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
MAJ	U	MAA	MITEVXX	TITOEXX	TABLE	<p>OBJECT, EXAMINE SURFACE CONDITION VISUALLY WITH NAKED EYE STARTS-WITH OBJECT IN POSITION READY FOR EXAMINATION INCLUDES-ALL MOTIONS NECESSARY TO VISUALLY EXAMINE THE OBJECT FOR SURFACE CONDITION ENDS-WITH DETERMINATION OF SURFACE CONDITION CONDITIONS-APPLIES ONLY TO YES/NO TYPE EVALUATION NOT REQUIRING PROLONGED MENTAL CONSIDERATION WHICH WOULD LIMIT OUT EYE FOCUS AND EYE TRAVEL. DOES NOT INCLUDE GET, PLACE, OR LAY ASIDE OBJECT.</p>

TYPE OF OBJECT	OBJECT DIMENSION (INCHES)			
	1/4X1/4X1/4 - 1X1X1	1X1X1- 3X3X3	3X3X3 5X5X5	5X5X5 7X7X7
FLAT, 1 SIDE	A 15	B 47	C 63	
FLAT, 2 SIDES	B 38	70	117	
CUBE, 6 SIDES	C 82	178	258	
CUBE, HOLLOW, 1 CAVITY	D 106	210	298	
CUBE, HOLLOW, 2 CAVITIES	E 130	242	338	
CYLINDER, HOLLOW	F 130	242	338	
CYLINDER, SOLID	G 109	114	152	
CYLINDER, CORED, 1 CAVITY	H 141	146	182	
CYLINDER, CORED, 2 CAVITIES	J 165	170	214	

TYPE OF OBJECT	OBJECT DIMENSION (INCHES)	
	5X5X5- 7X7X7	7X7X7- 10X10X10
FLAT, 1 SIDE	A 79	E 95
FLAT, 2 SIDES	B 149	181
CUBE, 6 SIDES	C 342	466
CUBE, HOLLOW, 1 CAVITY	D 392	516
CUBE, HOLLOW, 2 CAVITIES	E 442	566
CYLINDER, HOLLOW	F 442	566
CYLINDER, SOLID	G 182	218
CYLINDER, CORED, 1 CAVITY	H 220	267
CYLINDER, CORED, 2 CAVITIES	J 250	303

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DMSTDP ELEMENT	TNU VALUF	OPERATION/ELEMENT DESCRIPTION
NAA	U	MAA	OGNGPXX	TITUGXX	TABLE	GAUGE(PLUG),USE STARTS-WITH REACH TO GAUGE OR GAUGE CONTAINER INCLUDES-ALL THE MOTIONS NECESSARY TO OPEN CONTAINER OR REMOVE PROTECTIVE END CAPS,OBTAIN OBJECT TO BE GAUGED OR PLACE GAUGE TO HOLE AND GAUGE HOLE-ALSO INCLUDES MOTIONS TO GAUGE ADDITIONAL HOLE IN SAME OBJECT,OR OBTAIN AN ADDITIONAL OBJECT,PLACE GAUGE,GAUGE HOLE ENDS-WITH LAY ASIDE OBJECT AND/OR GAUGE TYPE OF GAUGE FIRST GAUGE ADDITIONAL GAUGES A 8 PROGRESSIVE CYLINDRICAL GAUGE A 290 PLAIN CYLINDRICAL GAUGE B 409 WEAR AND PLAIN CYLINDRICAL GAUGE (COMBINATION) C 453 WEAR GAUGE D 466 95 126 175 196
FFD	U	MAA	KITHPAA	SITAIXX	VARIABLE	AREA,INSPECT WITH LIGHT STARTS-WITH REACH TO GET LIGHT INCLUDES-ALL THE MOTIONS NECESSARY TO GET AND TURN ON LIGHT WITH A SLIDE OR BUTTON TYPE SWITCH,PLACE LIGHT TO EXACT AREA,MOVE LIGHT FOUR TIMES TO INSPECT,TURN OFF AND ASIDE LIGHT ENDS-WITH ASIDE LIGHT 184 CASE 01 INSPECT FIRST OR ONLY 16-SQUARE INCH AREA 91 02 INSPECT EACH ADDITIONAL 16-SQUARE INCH AREA
FFE	U	MAA	GITNCAX	SITMUXX	VARIABLE	MICROMETER(DEPTH),USE WITH PARALLEL BARS STARTS-WITH REACH TO PARALLEL BARS INCLUDES-ALL MOTIONS NECESSARY TO GET BARS, POSITION TO PART,GET DEPTH MICROMETER,ADJUST TO SURFACE,READ MICROMETER,ASIDE MICROMETER, AND ASIDE PARALLEL BARS ENDS-WITH RELEASE OF PARALLEL BARS CONDITIONS-APPLICABLE TO MICROMETER TO SIX-INCH CAPACITY 635 CASE 01 MEASURE FIRST DEPTH 342 02 MEASURE EACH ADDITIONAL DEPTH ON SAME PART(INCLUDES REPOSITION PARALLEL BARS)
FFF	U	MAA	NJPCAXX	NJPAPXX	VARIABLE	APRON,PUT ON AND REMOVE STARTS-WITH REACH TO APRON INCLUDES-ALL MOTIONS NECESSARY TO GET APRON AND ORIENT;GET NECK BAND,PLACE ABOUT NECK,AND ADJUST;GET WAIST STRINGS AND SECURE;GET WAIST STRINGS AND UNFASTEN;AND REMOVE NECK BAND AND ASIDE APRON ENDS-WITH PLACE APRON ASIDE CONDITIONS-APRON IS WITHIN EASY REACH 601 CASE 01 APRON,TIE-STRING TYPE FASTENER 368 02 APRON,HOOK AND EYE TYPE FASTENER
AE	U	MAW	BTHEASI	MJPBIOI	170	BAR(LOCKING),INSTALL AND REMOVE,TOOL CABINET OR SIMILAR STARTS-WITH REACH TO LOCKING BAR INCLUDES-ALL MOTIONS NECESSARY TO GET,REMOVE AND ASIDE BAR;AND TO GET BAR,POSITION TO BRACKET,AND INSERT IN BRACKET ENDS-WITH RELEASE OF BAR CONDITION-THIS ELEMENT INCLUDES MOVING BAR 30 INCHES IN AND OUT

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSDP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
MF	U	MAF	3195	NJPCCXX	VARIABLE	<p>CORD(ELECTRIC),CONNECT AND DISCONNECT STARTS-WITH A REACH TO ELECTRIC PLUG INCLUDES-ALL THE MOTIONS NECESSARY TO OBTAIN AN ELECTRIC PLUG AND INSERT INTO A RECEPTACLE OR EXTENSION CORD,AND TO REMOVE PLUG AND PLACE ON RACK ENDS-WITH RELEASE OF CORD AFTER PLACING ON RACK</p> <p>102 CASE 01 AT WORK BENCH LEVEL-NO STOOPING REQUIRED</p> <p>224 02 AT BASEBOARD LEVEL-STOOP OR BEND REQUIRED</p>
PPD	U	MMA	KALEA24	NJPC101	127	<p>COMPONENT(BAYONET TYPE),INSTALL STARTS-WITH REACH TO GET COMPONENT INCLUDES-ALL THE MOTIONS NECESSARY TO GET COMPONENT AND MOVE TO SOCKET,MOVE COMPONENT TO SPRING,DEPRESS SPRING AND SEAT COMPONENT, ENGAGE PIN IN SLOTS,TURN COMPONENT TO LOCK IN PLACE,RELEASE COMPONENT ENDS-WITH PLUG IN PLACE AND RELEASED CONDITIONS-APPLICABLE TO LAMP,FUSE HOLDER CAP, ETC., WITH BAYONET BASE.</p>
MF	U	MAF	3385	NJPC001	73	<p>COMPARTMENT(TOOL),OPEN OR CLOSE MOUNTED ON TRUCK OR SIMILAR STARTS-WITH REACH TO COMPARTMENT DOOR INCLUDES-ALL MOTIONS NECESSARY TO UNLATCH AND OPEN DOOR OR GET DOOR,CLOSE,AND FASTEN LATCHES ENDS-WITH RELEASE OF DOOR</p>
DL	U	MAL	BMVD	NJPC002	102	<p>COMPARTMENT(DASH),OPEN AND CLOSE STARTS-WITH A REACH TO THE HANDLE INCLUDES-ALL THE TIME NECESSARY TO OPEN AND CLOSE THE DOOR OF THE DASH COMPARTMENT OF A VEHICLE ENDS-WITH RELEASE OF HANDLE,DOOR CLOSED</p>
FFF	U	MMA	NJPCC01	NJPCP01	1145	<p>COVERALLS,PUT ON AND REMOVE STARTS-WITH COVERALLS UNDER CONTROL INCLUDES-ALL MOTIONS NECESSARY TO PUT UN AND REMOVE COVERALLS ENDS-WITH COVERALLS IN HAND READY TO BE PLACED ASIDE CONDITION-DOES NOT INCLUDE TIME TO FASTEN OR UNFASTEN</p>
PPD	U	MMA	KALED24	NJPC001	69	<p>COMPONENT(BAYONET TYPE),REMOVE STARTS-WITH REACH TO COMPONENT INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP COMPONENT AND TWIST TO UNLOCK,DISENGAGE FROM SOCKET AND PLACE ASIDE ENDS-WITH COMPONENT ASIDE CONDITIONS-APPLICABLE TO LAMP,FUSE HOLDER CAP, ETC., WITH BAYONET BASE.</p>
MF	U	MAF	957	NJPCU01	1186	<p>CORD(ELECTRIC EXTENSION),UNCOIL,CONNECT, DISCONNECT AND COIL STARTS-WITH A STOOP TO COILED CORD INCLUDES-ALL THE MOTIONS NECESSARY TO UNCOIL A 25 FOOT CORD,WALK TO OUTLET,INSERT PLUG IN OUTLET,RETURN TO WORK AREA,TURN AND WALK TO OUTLET WITH PLUG INSERTED,STOOP,REMOVE PLUG, RECOIL CORD,ASIDE COIL TO FLOOR AND STAND AFTER BEND TO PLACE COILED CORD ON FLOOR ENDS-WITH STAND CONDITIONS-WALK 10 PACES TO AND FROM OUTLET TO CONNECT AND DISCONNECT. UNCOIL AND COIL CORD WHILE WALKING</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFF	U	MAA	MJPSCXX	MJPDCXX	VARIABLE	DOOR(CABINET),CLOSE AND OPEN,SWING OR SLIDE STARTS-WITH REACH TO DOOR HANDLE,KEY,OR LATCH INCLUDES-ALL MOTIONS NECESSARY TO UNLOCK AND/ OR OPEN AND TO CLOSE AND/OR LOCK DOOR ENDS-WITH RELEASE OF DOOR AND ASIDE KEY 76 302 166 414 CASE 01 DOOR WITHOUT LATCH OR LOCK 02 DOOR,WITH MOUNTED LOCK-OPEN AND SECURE LOCK,OPEN AND CLOSE DOOR 03 DOOR,WITH HASP,NOT LOCKED 04 DOOR,WITH HASP AND PADLOCK-OPEN AND CLOSE LOCK,OPEN AND CLOSE DOOR
MF	U	MAF	2159	MJPDC05	274	DOOR(CABINET),CLOSE AND OPEN,UNLOCK AND LOCK STARTS-WITH MOVE KEY TO LOCK INCLUDES-ALL MOTIONS NECESSARY TO UNLOCK,OPEN, CLOSE,AND LOCK CABINET DOOR ENDS-WITH RELEASE OF LOCK
MAA	U	MAA	MJPDOXX	MJPDC06	128	DOOR(CABINET),CLOSE AND OPEN,SINGLE OR DOUBLE WITH LOCKING HANDLE OR KNOB STARTS-WITH REACH TO DOOR INCLUDES-UNLATCH AND OPEN DOOR(S),REACH TO DOOR(S),CLOSE AND LATCH ENDS-WITH DOOR(S) CLOSED AND LATCHED CONDITIONS-APPLIES TO DOOR(S) WITH NON-KEY LOCKING DEVICES IN ONE DOOR
ND	U	MAO	LATL2L	MJPDC07	349	DOOR(CABINET),CLOSE AND OPEN,SECURED WITH PIN LATCH STARTS-WITH SIMO REACH TO DOOR AND PIN INCLUDES-ALL MOTIONS NECESSARY TO PRESS ON DOOR WITH RIGHT HAND,REMOVE PIN FROM LATCH WITH LEFT HAND,PARTIALLY OPEN LEFT HAND DOOR, PARTIALLY OPEN RIGHT HAND DOOR,RELEASE LEFT HAND DOOR,SIDESTEP TO FULLY OPEN RIGHT HAND DOOR,TURN,GET LEFT HAND DOOR,OPEN LEFT HAND DOOR FULLY,ASIDE PIN TO CABINET SHELF;GET PIN FROM SHELF,REACH TO LEFT HAND DOOR,CLOSE PARTIALLY,GET RIGHT HAND DOOR,CLOSE BOTH DOORS COMPLETELY(SIMO),AND INSERT PIN IN LATCH ENDS-WITH SIMO RELEASE OF DOOR AND PIN CONDITIONS-APPLICABLE TO DOUBLE DOOR CABINET THREE TO FIVE FEET WIDE
FFF	U	MAA	MJPDOXX	MJPDOXX	VARIABLE	DRAWER(STORAGE),OPEN AND CLOSE STARTS-WITH GET DRAWER HANDLE,HASP,OR KEY INCLUDES-ALL MOTIONS NECESSARY TO OPEN AND CLOSE STORAGE DRAWER ENDS-WITH DRAWER CLOSED AND LOCKED IF NECESSARY CONDITION-CASE 01-04 APPLY TO DRAWERS WITH UP TO 10 POUNDS ENW RESISTANCE.CASE 05-08 APPLY TO DRAWERS WITH 10-20 POUNDS ENW RESISTANCE 66 292 134 382 76 302 144 392 CASE 01 UNLOCKED DRAWER WITH NO LATCH 02 LOCKED DRAWER WITH MOUNTED LOCK 03 DRAWER WITH HASP (DOES NOT INCLUDE UNLOCK,REMOVE,ATTACH,AND LOCK PADLOCK) 04 DRAWER WITH HASP (INCLUDES UNLOCK, REMOVE,ATTACH,AND LOCK PADLOCK) 05 UNLOCKED DRAWER WITH NO LATCH 06 LOCKED DRAWER WITH MOUNTED LOCK 07 DRAWER WITH HASP (DOES NOT INCLUDE UNLOCK,REMOVE,ATTACH,AND LOCK PADLOCK) 08 DRAWER WITH HASP (INCLUDES UNLOCK, REMOVE,ATTACH,AND LOCK PADLOCK)

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
AF	U	NAA	12ARAD	NJP0009	30	<p>DRAWER (TOOL BOX), OPEN AND CLOSE</p> <p>STARTS-WITH REACH TO DRAWER</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO REACH AND GRASP DRAWER, SLIDE DRAWER OPEN, REGRASP DRAWER, CLOSE DRAWER, RELEASE DRAWER</p> <p>ENDS-WITH RELEASE CLOSED DRAWER</p> <p>CONDITIONS-DRAWER OPENED APPROXIMATELY FOUR INCHES. DOES NOT INCLUDE TIME TO REMOVE OBJECT FROM DRAWER.</p>
FFF	U	NAA	NJPCN01	NJPEP01	131	<p>EARMUFFS, PUT ON AND REMOVE</p> <p>STARTS-WITH GET EARMUFFS</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO PUT ON AND REMOVE EARMUFFS</p> <p>ENDS-WITH PLACE EARMUFFS ASIDE</p> <p>CONDITION-EARMUFFS ARE WITHIN EASY REACH</p>
FFF	U	NAA	NJPCEXX	NJPGGXX	VARIABLE	<p>GLASSES, GOGGLES, OR SHIELD, PUT ON AND REMOVE</p> <p>STARTS-WITH GET GOGGLES, GLASSES, OR SHIELD</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO PUT ON AND REMOVE VARIOUS EYE PROTECTIVE DEVICES</p> <p>ENDS-WITH PLACE DEVICE ASIDE</p> <p>CONDITION-DEVICE IS WITHIN EASY REACH</p> <p>CASE 01 GOGGLES</p> <p>02 SAFETY GLASSES (NOT IN CASE)</p> <p>03 SAFETY SHIELD</p>
					183	
					190	
					129	
DNA	U	NAA	DJP6S02	NJPGG04	477	<p>GLASSES, REMOVE FROM CASE, PUT ON, REMOVE, AND RETURN TO CASE</p> <p>STARTS-WITH REACH TO CASE</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO GET CASE, OPEN CASE (SPRING TENSION LID), REMOVE GLASSES FROM CASE, CLOSE CASE, ASIDE CASE, UNFOLD GLASSES, PLACE GLASSES ON FACE, REMOVE GLASSES FROM FACE, FOLD GLASSES, GET CASE, OPEN CASE, PUT GLASSES IN CASE, CLOSE CASE, AND ASIDE CASE</p> <p>ENDS-WITH RELEASE OF CASE</p> <p>CONDITIONS-APPLICABLE TO SAFETY EYEGLASSES OR SIMILAR STORED IN CASE WITH SPRING TENSION LID. DOES NOT INCLUDE TIME TO CLEAN GLASSES.</p>
FFE	U	NAA	QITHPA2	NJPGN01	152	<p>GLASS (ILLUMINATED MAGNIFYING), MOVE INTO POSITION AND MOVE ASIDE</p> <p>STARTS-WITH REACH TO MAGNIFYING GLASS</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO MOVE GLASS OVER SURFACE TO BE EXAMINED, TURN ON LIGHT, TURN OFF LIGHT, AND MOVE GLASS ASIDE</p> <p>ENDS-WITH RELEASE OF GLASS</p> <p>CONDITIONS-GLASS IS MOUNTED ON BENCH</p>
FFF	U	NAA	NJPGGXX	NJPGPXX	VARIABLE	<p>GLOVES, PUT ON AND REMOVE</p> <p>STARTS-WITH GET GLOVES</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO PUT ON AND REMOVE A PAIR OF GLOVES</p> <p>ENDS-WITH PLACE GLOVES ASIDE</p> <p>CONDITIONS-GLOVES ARE WITHIN EASY REACH</p> <p>CASE 01 ASBESTOS OR RUBBER GLOVES, LOOSE FIT</p> <p>02 RUBBER GLOVES, CLOSE FIT</p> <p>03 WORK GLOVES, CLOTH, LEATHER, OR SIMILAR</p>
					254	
					428	
					320	
NAA	U	NAA	SPAGR01	NJPGR01	230	<p>GUN (SPRAY), REPLACE</p> <p>STARTS-WITH REACH TO GET REPLACEMENT GUN</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO PICK UP REPLACEMENT GUN, REACH TO AIR HOSE CONNECTOR ATTACHED TO SPRAY GUN HANGING ON HOOK, PUSH AND TURN CONNECTOR TO DISENGAGE FROM GUN, POSITION HOSE CONNECTOR TO OTHER SPRAY GUN, AND TURN AND PUSH CONNECTOR TO LOCK ON GUN.</p> <p>ENDS-WITH REPLACEMENT GUN WITH HOSE CONNECTED IN HAND</p> <p>CONDITIONS-DOES NOT INCLUDE WALKING TO GET REPLACEMENT GUN OR WALKING TO GUN AND HOSE OR WALKING TO SPRAY AREA</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
AE	U	MAW	BTHEAXX	MJPHCXX	VARIABLE	HOSE(AIR),CONNECT OR DISCONNECT STARTS-AS INDICATED IN CASE DESCRIPTION INCLUDES-ALL MOTIONS NECESSARY TO CONNECT OR DISCONNECT AN AIR HOSE WITH PLUG-IN FITTINGS ENDS-CASES 01 AND 02 WITH RELEASE OF HOSE CASES 03 AND 04 WITH HOSE IN HAND 89 CASE 01 GET END OF HOSE AND CONNECT TO WALL OR BENCH OUTLET 101 02 GET TOOL(END OF HOSE HELD IN HAND)AND CONNECT HOSE TO TOOL 99 03 GET TOOL AND DISCONNECT HOSE 77 04 GET END OF HOSE AND DISCONNECT FROM WALL OUTLET
FFF	U	MAA	MJPCHX	MJPHPX	VARIABLE	HAT,PUT ON AND REMOVE STARTS-WITH GET HAT INCLUDES-ALL MOTIONS NECESSARY TO PUT ON AND REMOVE HAT USING BOTH HANDS ENDS-WITH PLACE HAT ASIDE CONDITION-HAT IS WITHIN EASY REACH 132 CASE 01 BUMP HAT(LOOSE FITTING) 185 02 SKULL HAT(CLOSE FITTING)
AE	U	MAW	BTHEAY1	MJPHW01	557	HOSE(AIR),WIND FOR STORAGE,25 FEET LONG STARTS-WITH END OF HOSE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO FORM EIGHT COILS WITH HOSE ENDS-WITH COILED HOSE IN HAND
AF	U	OBW	11867	MJPIA01	224	INDICATOR(DIAL),ASSEMBLE TO MAGNETIC BASE STARTS-WITH A REACH TO MAGNETIC BASE INCLUDES-ALL THE MOTIONS NECESSARY TO GET BASE AND INDICATOR,MOVE TOGETHER,POSITION INDICATOR TO BASE AND ASSEMBLE,GET ALLEN WRENCH,TIGHTEN SET SCREW,ASIDE WRENCH,ASIDE ASSEMBLY TO BENCH ENDS-WITH RELEASE OF ASSEMBLY
AF	U	OBW	11864	MJPIA02	373	INDICATOR(DIAL),ASSEMBLE TO HEIGHT GAUGE STARTS-WITH REACH TO INDICATOR BOX INCLUDES-ALL THE MOTIONS NECESSARY TO OPEN THE INDICATOR BOX,REMOVE INDICATOR,PUT ON BENCH, GET SHAFT,PUT SHAFT ON BENCH,CLOSE INDICATOR BOX AND ASIDE,MOVE INDICATOR TO SHAFT,INSERT SHAFT INTO INDICATOR,TIGHTEN CLAMPS,MOVE INDICATOR TO HEIGHT GAUGE AND CLAMP,MOVE HANDS ASIDE ENDS-WITH RELEASE OF ASSEMBLY
AF	U	OBW	11868	MJPID01	179	INDICATOR(DIAL),DISASSEMBLE FROM MAGNETIC BASE STARTS-WITH REACH TO GET ASSEMBLY INCLUDES-ALL THE MOTIONS NECESSARY TO USE AN ALLEN WRENCH TO LOOSEN SET SCREW IN BASE,ASIDE WRENCH,BASE AND INDICATOR ENDS-WITH RELEASE OF BASE
AF	U	OBW	11865	MJPID02	282	INDICATOR(DIAL),DISASSEMBLE FROM HEIGHT GAUGE STARTS-WITH REACH TO HEIGHT GAUGE CLAMP INCLUDES-ALL THE MOTIONS NECESSARY TO REMOVE THE INDICATOR AND SHAFT FROM THE HEIGHT GAUGE, REMOVE THE SHAFT FROM THE INDICATOR,GET INDICATOR BOX,PLACE INDICATOR AND SHAFT IN BOX,CLOSE AND ASIDE BOX ENDS-WITH RELEASE OF BOX
FFF	U	MAA	MJPCJ01	MJJP01	324	JACKET,PUT ON AND REMOVE STARTS-WITH JACKET UNDER CONTROL INCLUDES-ALL MOTIONS NECESSARY TO PUT ON AND REMOVE A JACKET,COAT,OR SMOCK WITH FRONT OPENING ENDS-WITH JACKET IN HAND READY TO PLACE ASIDE CONDITION-DOES NOT INCLUDE TIME FOR FASTEN AND UNFASTEN

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	DMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	U	MAF	231	NJPLM01	211	LADDER, MOVE TO NEW LOCATION STARTS-WITH REACH TO LADDER INCLUDES-ALL MOTIONS NECESSARY TO GET LADDER, TILT FORWARD, LIFT, MOVE TO NEW LOCATION WITH ONE SIDESTEP, SET LADDER DOWN, AND ADJUST POSITION ENDS-WITH RELEASE OF LADDER CONDITION-APPLICABLE TO LADDERS WEIGHING TO 60 POUNDS. FOR RELOCATING GREATER DISTANCES, ALLOW APPROPRIATE FREQUENCIES OF BBM-HC-01
NAA	U	MAA	SCLSJM1	NJPMPO1	204	MASK(FACE), PUT ON AND REMOVE, AIR FILTERING, DISPOSABLE TYPE MASK STARTS-WITH MASK IN HANDS INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE MASK TO FACE WITH ONE HAND AND MOVE RUBBER BAND OVER HEAD WITH OTHER HAND, POSITION MASK TO MOUTH AND NOSE, FORM NOSE SPRING TO FIT, GET SIDES OF MASK AND POSITION, RELEASE MASK, REACH TO RUBBER BAND AND REMOVE MASK ENDS-WITH MASK IN HAND
FFE	U	MAA	GIDSCA1	NJPPCX	VARIABLE	PAPER(STENCIL), CUT ON PAPER CUTTER STARTS-WITH REACH TO SHEET OF STENCIL PAPER INCLUDES-ALL MOTIONS NECESSARY TO GET SHEET OF PAPER, PLACE ON TABLE, RAISE KNIFE BLADE, POSITION PAPER, LOWER KNIFE AND CUT PAPER, MOVE SHEET TO STORAGE, AND ASIDE SCRAP ENDS-WITH PAPER FOR STENCIL IN HAND CONDITIONS-TIME INCLUDED TO CUT STENCIL FROM BULK SHEET TO 180 SQUARE INCHES CASE 01 FIRST CUT 295 134 02 REPOSITION PAPER AND MAKE ADDITIONAL CUT
FFE	U	MAA	GPLPA03	NJPP101	112	PLUG, INSERT IN AND REMOVE FROM RECEPTACLE STARTS-WITH GET PLUG INCLUDES-ALL MOTIONS NECESSARY TO INSERT PLUG IN RECEPTACLE, TURN PLUG TO LOCK; GET PLUG TO REMOVE, TURN PLUG, AND REMOVE FROM RECEPTACLE ENDS-WITH ASIDE PLUG CONDITIONS-APPLICABLE TO ELECTRICAL PLUGS OR SIMILAR WHICH REQUIRE A TURN TO LOCK IN RECEPTACLE
FFF	U	MAA	NJPCP01	NJPPP01	685	PLUG, PUT IN AND REMOVE FROM EAR STARTS-WITH EARPLUG CONTAINER IN HAND INCLUDES-OPEN SCREW TYPE CONTAINER, REMOVE EARPLUG AND PLACE IN EARS, CLOSE CONTAINER, REMOVE PLUGS FROM EARS, OPEN CONTAINER, PLACE PLUGS IN CONTAINER, AND CLOSE CONTAINER ENDS-WITH CONTAINER IN HAND READY TO BE PLACED ASIDE CONDITION-GET AND ASIDE EARPLUG CONTAINER NOT INCLUDED
NF	U	MAF	3873	NJPRG01	137	RAG, GET FROM COVERED CAN STARTS-WITH BEND TO CAN INCLUDES-ALL MOTIONS NECESSARY TO OPEN CAN, GET RAG OR SIMILAR OBJECT FROM CAN, AND REPLACE LID ENDS-WITH ARISE FROM BEND CONDITION-LID DOES NOT BIND. LID IS OPENED BY HAND. ALSO APPLIES TO OBTAINING A SOILED RAG AND DEPOSITING IT IN COVERED CAN
DL	U	MAL	BEST	NJPSA01	219	STENCIL, AFFIX ON ROLL STAMP, TEST AND REMOVE STARTS-WITH A REACH TO THE PRE-PRINTED STENCIL INCLUDES-ALL THE TIME NECESSARY TO ATTACH A PRE-PRINTED STENCIL TO A ROLL-STAMP, TEST STAMP ON A PIECE OF PAPER, REMOVE THE STENCIL AND WIPE THE STENCIL WITH A CLOTH ENDS-WITH CLOTH AND STAMP ASIDE AND STENCIL IN HAND

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWNSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	U	MAF	3826	NJPS001	772	STEPLADDER, OBTAIN FROM FLOOR, SET UP, TAKE DOWN, AND ASIDE TO FLOOR, LADDER TO 12 FEET TALL STARTS=STOOP TO PICK UP STEPLADDER INCLUDES=ALL MOTIONS NECESSARY TO GET STEPLADDER TO UPRIGHT POSITION, SPREAD AND LOCK LEGS, AND LOWER SHELF (SET UP); RAISE PAINT SHELF, UNLOCK BRACES, CLOSE LEGS, AND LOWER STEPLADDER TO FLOOR ENDS=WITH ARISE FROM BEND AFTER RELEASE OF STEPLADDER CONDITION=LADDER AT WORK PLACE PRIOR TO SET-UP AND AFTER TAKE-DOWN. FOR LADDERS WEIGHING UP TO 20 POUNDS
FFE	U	MAA	GJPURA6	NJPS01	879	SMOCK (TIE TYPE), PUT ON AND REMOVE STARTS=WITH SMOCK IN HAND INCLUDES ALL THE MOTIONS NECESSARY TO PUT ON AND TAKE OFF A TIE TYPE, WRAP AROUND SMOCK ENDS=WITH SMOCK OFF READY TO BE PLACED ASIDE CONDITIONS=FOR USE IN CLEAN ROOM OPERATIONS INCLUDES FASTEN AND UNFASTEN
FFE	U	MAA	GTLHTA2	NJPTGXX	VARIABLE	TOOL, GET FROM AND RETURN TO TOOL DRAWER STARTS=WITH REACH TO DRAWER INCLUDES=ALL THE MOTIONS NECESSARY TO OPEN TOOL DRAWER, REMOVE TOOL, CLOSE DRAWER, ASIDE TOOL, GET TOOL, OPEN DRAWER, REPLACE TOOL AND CLOSE DRAWER ENDS=WITH TOOL IN DRAWER CASE 01 FIRST TOOL CASE 02 EACH ADDITIONAL TOOL
					198 97	
FFF	U	MAA	NJPSBXX	NJPT0XX	VARIABLE	TOOLBOX (MACHINIST), OPEN AND CLOSE STARTS=WITH GET LATCH OR KEY INCLUDES=ALL MOTIONS NECESSARY TO OPEN CAN TYPE LATCH, OPEN TOP LID, REMOVE FRONT COVER AND PLACE UNDER BOX, GET FRONT COVER, POSITION ON BOX, CLOSE LID, AND CLOSE LATCH. CASE 02 ALSO INCLUDES GET KEY, OPEN LOCK, AND CLOSE LOCK ENDS=WITH BOX CLOSED (CASE 01) OR ASIDE KEY (CASE 02) CASE 01 OPEN AND CLOSE UNLOCKED MACHINIST TOOLBOX CASE 02 OPEN AND CLOSE LOCKED MACHINIST TOOLBOX
					273 499	
FFF	U	MAA	NJPSB07	NJPT003	195	TOOLBOX, OPEN AND CLOSE, STORAGE TYPE. 2.5X5X1.5 FEET STARTS=WITH REACH TO HASP INCLUDES=GET AND LIFT HASP, OPEN LID APPROXIMATELY 90 DEGREES, GET LID AND HASP, AND CLOSE LID ENDS=WITH LID CLOSED AND LATCHED CONDITION=DOES NOT INCLUDE TIME FOR OPENING OR REMOVING PADLOCK
AF	U	MAA	13ARAD	NJPT004	70	TOOLBOX, OPEN AND CLOSE LID STARTS=WITH SIMO REACH TO LID AND LATCH INCLUDES=ALL THE MOTIONS NECESSARY TO GRASP BOX AND LATCH, OPEN LATCH, RAISE LID, RELEASE BOX AND LID, REACH TO BOX LID, CLOSE LID AND RELEASE ENDS=WITH RELEASE CLOSED LID CONDITIONS=APPLICABLE TO TOOLBOX OR INSTRUMENT CASE APPROXIMATELY EIGHT INCHES WIDE WITH SINGLE LATCH. DOES NOT INCLUDE ACTIONS TO LATCH AFTER CLOSING.

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DMHSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
AE	U	MAW	BTHEA01	NJPTU01	158	TOOLBOX, UNLOCK, OPEN, CLOSE, AND LOCK STARTS-WITH KEY IN HAND AT LOCK INCLUDES-ALL MOTIONS NECESSARY TO UNLOCK TOOLBOX, GET HASP, OPEN LID, RELEASE HASP, GET TOP, CLOSE TOP, MOVE HASP TO LOCK POSITION, REACH TO KEY IN LOCK AND TURN KEY TO LOCK ENDS-WITH REMOVAL OF KEY FROM LOCK
NO	U	MAO	LDPC-15	NJPWA01	167	WIRE, ATTACH TO HOOK, SINGLE STRAND WIRE STARTS-WITH WIRE IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE AND POSITION WIRE TO HOOK WITH LEFT HAND, REACH (SINO) WITH RIGHT HAND AND GRASP WIRE AT HOOK, WRAP WIRE AROUND HOOK (TWO TIMES), RELEASE WIRE AND GRASP END, TWIST END OF WIRE AROUND ITSELF AND RELEASE (LEFT HAND HOLDS HOOK UNTIL WIRE IS WRAPPED AND TWISTED) ENDS-WITH RELEASE WIRE AND HOOK
NO	U	MAO	LDPC-17	NJPWA02	110	WIRE, ATTACH TO PART STARTS-WITH REACH TO GET PART (LEFT HAND) INCLUDES-ALL THE MOTIONS NECESSARY TO GET PART WITH LEFT HAND AND THEN GET WIRE WITH RIGHT HAND, MOVE PART TO WIRE, WRAP WIRE ONE TIME AROUND PART, TWIST PART 180 DEGREES TO SECURE WIRE, RELEASE PART AND WIRE ENDS-WITH RELEASE PART AND WIRE CONDITIONS-SMALL PART-TO 2.5 POUNDS
NO	U	MAO	LDPC-1U	NJPWA03	83	WIRE, ATTACH TO LARGE PART STARTS-WITH LEFT HAND HOLDING PART ON WORK SURFACE-WIRE HELD IN RIGHT HAND INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE AND POSITION WIRE TO PART, MOVE WIRE INTO OR AROUND PART WITH RIGHT HAND, RELEASE PART WITH LEFT HAND AND GRASP WIRE, PULL WIRE THROUGH OR AROUND PART, GRASP WIRE END IN RIGHT HAND (OTHER END IN LEFT HAND), PULL TWO ENDS TOGETHER, GRASP BOTH ENDS IN LEFT HAND, RELEASE WITH RIGHT HAND ENDS-WITH BOTH WIRES HELD BY LEFT HAND
FFD	U	TBA	GECCNOX	SJPCAXX VARIABLE	592 532	CREAM (HAND), APPLY STARTS-WITH REACH TO CONTAINER OF CREAM INCLUDES-ALL THE MOTIONS NECESSARY TO GET CREAM, REMOVE CAP OR LID, ASIDE CAP OR LID, SQUEEZE CREAM FROM TUBE OR GET FROM JAR, MOVE HANDS TOGETHER TO RUB IN CREAM, GET JAR OR TUBE, REPLACE LID OR CAP, ASIDE CONTAINER ENDS-WITH ASIDE CONTAINER (TUBE OR JAR) CASE 01 CREAM IN TUBE 02 CREAM IN JAR
FFE	U	MAA	KJPSCXX	SJPCRO1	261	CABLE, REMOVE FROM AND RETURN TO CASE, CABLE ROLLED AND STOWED IN CASE STARTS-WITH GET CABLE FROM CASE INCLUDES-ALL MOTIONS NECESSARY TO LIFT ROLLED CABLE FROM CASE, ASIDE CABLE; GET END OF CABLE, ROLL CABLE, AND PLACE IN CASE ENDS-WITH RELEASE OF CABLE CONDITION-CABLE LIES FLAT IN CASE WITH NO FASTENERS, CABLE IS TEN FEET LONG, NO TIME INCLUDED FOR OPENING AND CLOSING CASE

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFE	J	MAA	KJPSCXX	SJPCRO2	1218	<p>CABLE, REMOVE FROM AND RETURN TO CASE, CABLE WOUND ON RACK IN LID</p> <p>STARTS-WITH GET CABLE END</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO REMOVE END OF CABLE FROM CLIP, UNWIND CABLE FROM RACK, LOOP CABLE LOOSELY OVER HAND, ASIDE CABLE, GET CABLE, UNTANGLE CABLE, ATTACH CLIP TO CABLE, AND WIND CABLE ON RACK IN LID</p> <p>ENDS-WITH RELEASE CABLE</p> <p>CONDITIONS-CABLE IS TEN FEET LONG, NO TIME INCLUDED FOR OPENING AND CLOSING CASE</p>
FFE	U	MAA	RLGJPG1	SJPGF01	2032	<p>GUN(HAND OPERATED GREASE), FILL</p> <p>STARTS-WITH REACH TO GET GREASE GUN</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP AND UNSCREW BARREL FROM GUN, ASIDE HEAD, GRASP AND PULL PLUNGER OUT TO LIMIT, PLACE BARREL ON BENCH, REMOVE AND ASIDE GREASE CAN LID, GET GUN BARREL AND PLACE END IN GREASE, TWIST AROUND IN GREASE, REMOVE FROM GREASE, HOLD GREASE CAN ON BENCH, BOUNCE GUN ON BENCH TO SETTLE GREASE, PUT END OF BARREL BACK IN GREASE, TWIST AROUND IN GREASE, PULL BARREL FROM GREASE, GET CLOTH AND WIPE OFF OUTSIDE OF BARREL, ASIDE CLOTH TO TRASH, GET GUN HEAD AND SCREW ONTO BARREL, RELEASE SPRING PLUNGER, PUMP LEVER TO PRIME GUN, ASIDE GUN, CLOSE GREASE CAN(PRY OPEN TYPE)</p> <p>ENDS-WITH GUN FILLED AND ASIDE, GREASE CAN CLOSED</p> <p>CONDITIONS-REMOVE HEAD FROM GUN BARREL, 10-15 THREADS, UNOBSTRUCTED, CLEAR</p>
FFE	U	MUA	GJPPAAL	SJPGP01	3452	<p>GUN(PAINT SPRAY), PREPARE FOR USE</p> <p>STARTS-WITH GET SPRAY GUN</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO REMOVE GUN FROM POT, ASIDE GUN AND POT, TURN TO PAINT CABINET, OPEN CABINET DOOR(UNLOCKED AND UNLATCHED), LOCATE PAINT IN CABINET, GET CAN OF PAINT, CLOSE CABINET DOOR, TURN TO WORK AREA, OPEN PAINT CAN WITH PRY TOOL, POUR ONE QUART OF PAINT IN POT, CLOSE PAINT CAN, TAP LID WITH HAMMER TO SEAL, TURN TO PAINT CABINET, OPEN CABINET DOOR, ASIDE PAINT, CLOSE CABINET DOOR, TURN TO WORK AREA, MOVE PAINT POT TO THINNER CONTAINER, OPEN SPIGOT, POUR THINNER, CLOSE SPIGOT, SET POT ON BENCH, STIR PAINT WITH PADDLE, WIPE PADDLE WITH CLOTH, INSTALL GUN ON POT, AND ATTACH AND REMOVE AIR HOSE AT SPRAY BOOTH</p> <p>ENDS-WITH PREPARATION COMPLETED</p> <p>CONDITIONS-WALKING TIMES NOT INCLUDED, CAN OF PAINT WEIGHS TO 20 POUNDS</p>
FFH	U	MAA	KJPKN01	SJPKO01	136	<p>KNIFE(POCKET), OPEN AND CLOSE</p> <p>STARTS-WITH REACH TO KNIFE</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO PICK UP POCKET KNIFE, POSITION FINGERNAIL IN BLADE SLOT AND OPEN BLADE, REGRASP KNIFE, PUSH BLADE CLOSED AND ASIDE KNIFE</p> <p>ENDS-WITH ASIDE KNIFE</p> <p>CONDITIONS-APPLIES TO COMMON POCKET KNIFE WITHOUT BLADE LOCK OR CATCH</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFE	U	NAA	KITSUAA	SJPM501	1659	MICROMETER(INSIDE),SET UP WITH TWO EXTENSIONS STARTS-WITH REACH TO MICROMETER CASE INCLUDES-ALL MOTIONS NECESSARY TO GET CASE, OPEN(HASP TYPE FASTENER),GET MICROMETER FROM CASE,REMOVE CAPS FROM EACH END OF MICROMETER, PLACE CAPS IN CASE,IDENTIFY AND GET FIRST EXTENSION,PLACE EXTENSION IN MICROMETER,SECURE WITH CAP,IDENTIFY AND GET SECOND EXTENSION, INSTALL EXTENSION IN MICROMETER,CLOSE AND ASIDE CASE;GET AND OPEN CASE,DISASSEMBLE MICROMETER,PLACE EXTENSIONS AND MICROMETER IN CASE,AND CLOSE AND ASIDE CASE ENDS-WITH RELEASE OF CASE CONDITIONS-APPLICABLE TO INSIDE MICROMETER WITH SEPARATE EXTENSIONS FOR LENGTH ADJUSTMENT
FFE	U	NAA	GJPATAX	SJPPHXX	VARIABLE	PLATE,MASK EDGES WITH TAPE PRIOR TO PAINTING STARTS-WITH REACH TO GET MASKING TAPE INCLUDES-ALL THE MOTIONS NECESSARY TO GET ROLL OF TAPE,TEAR OFF TWO PIECES,APPLY ALONG EDGE OF PLATE,TRIM WITH KNIFE,ASIDE ROLL,KNIFE AND TRIMMINGS ENDS-WITH ASIDE TRIMMINGS CASE 01 MASK PLATE 2 1/4 X 1 1/2 INCHES 02 MASK PLATE 2 1/4 X 7/8 INCHES 689 684
FFE	U	NAA	KALSA10	SJPSC01	994	STRAIGHTEDGE,CLAMP TO PART WITH THREE C-CLAMPS STARTS-WITH GET STRAIGHTEDGE TO 60 INCHES LONG INCLUDES-ALL MOTIONS NECESSARY TO PLACE STRAIGHTEDGE ON PART,ALIGN,GET THREE CLAMPS AND PLACE NEAR STRAIGHTEDGE,INSTALL FIRST C-CLAMP,TURN,WALK TO OTHER END OF STRAIGHT- EDGE,INSTALL SECOND C-CLAMP,TURN,WALK TO MIDDLE,AND INSTALL THIRD CLAMP ENDS-WITH RETURN TO END OF STRAIGHTEDGE
DFF	U	NAA	GTLYPAL	SJPTAXX	VARIABLE	TORCH(PORTABLE PROPANE),ASSEMBLE/DISASSEMBLE STARTS-WITH REACH TO TORCH CASE INCLUDES-ALL THE MOTIONS NECESSARY TO GET TORCH CASE,OPEN CASE,REMOVE PROPANE BOTTLE AND BURNER ASSEMBLY FROM CASE,ASSEMBLE BURNER AND BOTTLE,TIGHTEN BY HAND,ASIDE TORCH TO COOL AFTER USE,GET TORCH,LOOSEN BURNER ASSEMBLY FROM BOTTLE BY HAND,REMOVE BURNER FROM BOTTLE,PLACE BURNER ASSEMBLY AND BOTTLE IN CASE,CLOSE AND LATCH CASE,GET AND PLACE CASE ASIDE ENDS-WITH CASE ASIDE CASE 01 ASSEMBLE AND DISASSEMBLE PROPANE TORCH 02 CHANGE TIP ON BURNER 627 615
NF	U	NAF	333	BL0L001	43	LINE,DRAW USING SQUARE STARTS-WITH MARKING INSTRUMENT IN HAND WITHIN FOUR INCHES OF SQUARE INCLUDES-ALL MOTIONS NECESSARY TO POSITION MARKING INSTRUMENT TO SQUARE AND SURFACE AND DRAW A LINE TO 12 INCHES LONG ENDS-WITH MARKING INSTRUMENT IN CONTACT WITH SURFACE
NF	U	NAF	965	BL0LSXX	VARIABLE	LINE,SCRIBE,TO SCALE OR STRAIGHTEDGE STARTS-WITH MOVE SCRIBER TO START POINT INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE SCRIBER TO START,DRAW LINE,CHECK LINE AND REMOVE SCRIBER FROM LINE ENDS-WITH SCRIBER IN HAND AWAY FROM LINE CASE 01 SCRIBE 6 INCH LINE 02 SCRIBE 18 INCH LINE 63 87

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	U	MAF	1057	RLOPM01	50	POINT, MARK STARTS-WITH MARKING INSTRUMENT IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE MARKING INSTRUMENT TO LOCATION, MARK POINT, AND MOVE AWAY ENDS-WITH MARKING INSTRUMENT IN HAND CONDITION-TIME FOR POSITIONING MEASURING INSTRUMENT NOT INCLUDED
NF	U	MAF	1022	BLOSA01	189	STRAIGHTEDGE, ALIGN, TO POINTS OR LINE STARTS-WITH STRAIGHTEDGE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO LAY STRAIGHTEDGE ON SURFACE, AND POSITION TO TWO POINTS OR TO A LINE ENDS-WITH STRAIGHTEDGE HELD IN POSITION
NAA	U	MAA	0LOLIXX	MLOLSXX	VARIABLE	LINE, SCRIBE TO SCALE (STRAIGHTEDGE) STARTS-WITH REACH TO GET SCRIBE AND STRAIGHT- EDGE INCLUDES-ALL THE MOTIONS NECESSARY TO GET STRAIGHTEDGE AND MARKER, POSITION STRAIGHTEDGE TO INDEX POINT AND SECOND POINT, ADJUST TO BOTH POINTS AND DRAW OR SCRIBE LINE THROUGH POINTS OR FROM POINT TO POINT, LAY ASIDE MARKER AND STRAIGHTEDGE ENDS-WITH ASIDE MARKER AND STRAIGHTEDGE CONDITIONS-APPLIES TO 6 OR 12-INCH SCALE OR 24-INCH RULE OR EQUIVALENT STRAIGHTEDGE, USING PENCIL, SCRIBE, AWL OR SIMILAR MARKING DEVICE ON SURFACES WHICH ARE CURVED OR SEMI-CURVED PLANES, POSITIONED EITHER VERTICALLY, HORIZON- TALLY OR OVERHEAD. CONTROL POINTS ARE PRE- EXISTING SURFACE INDEX POINTS OR THE GRADUA- TIONS ON SCALE, RULE OR STRAIGHTEDGE. TIMES ARE FOR PENCIL MARKINGS WITH NO PRESSURE; ADD U BEL-AP-01 (16 TMUS) WHEN USING SCRIBE OR AWL CASE 01 RANDOM LENGTH LINE TO SIX INCHES ON SIX-INCH SCALE OR EQUIVALENT STRAIGHTEDGE-FIRST OR ONLY 02 EACH ADDITIONAL RANDOM LENGTH LINE UP TO SIX INCHES 03 RANDOM LENGTH LINE TO 12 INCHES ON 12- INCH SCALE, RULE OR EQUIVALENT STRAIGHTEDGE-FIRST OR ONLY 04 EACH ADDITIONAL RANDOM LENGTH LINE TO 12 INCHES 05 RANDOM LENGTH LINE TO 24 INCHES ON 24- INCH SCALE OR EQUIVALENT STRAIGHTEDGE- FIRST OR ONLY 06 EACH ADDITIONAL RANDOM LENGTH LINE TO 24 INCHES 07 CONTROLLED LENGTH LINE BETWEEN POINTS TO SIX INCHES ON SIX-INCH SCALE-FIRST OR ONLY 08 EACH ADDITIONAL CONTROLLED LENGTH LINE TO SIX INCHES 09 CONTROLLED LENGTH LINE BETWEEN POINTS TO 12 INCHES ON 12-INCH SCALE-FIRST OR ONLY 10 EACH ADDITIONAL CONTROLLED LENGTH LINE TO 12 INCHES 11 CONTROLLED LENGTH LINE BETWEEN POINTS TO 24 INCHES ON 24-INCH SCALE-FIRST OR ONLY 12 EACH ADDITIONAL CONTROLLED LENGTH LINE TO 24 INCHES
					213	
					148	
					270	
					184	
					320	
					234	
					267	
					176	
					299	
					213	
					397	
					312	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION																																			
FFE	U	MAA	KPMES01	MLOLS13	125	LINE,SCRIBE,EXACT POSITION,METAL SURFACE STARTS-WITH REACH TO GET SCRIBE INCLUDES-ALL THE MOTIONS NECESSARY TO GET SCRIBE,POSITION TO EXACT LOCATION AND MOVE TO MAKE 1/4 INCH MARK IN METAL SURFACE,ASIDE SCRIBE ENDS-WITH ASIDE SCRIBE																																			
DL	U	MAF	DP01	MLOPM01	108	POINT,MARK WITH PENCIL STARTS-WITH REACH TO PENCIL IN POCKET INCLUDES-ALL THE MOTIONS NECESSARY TO GET PENCIL FROM POCKET,MARK MEASURED POINT AND RETURN PENCIL TO POCKET ENDS-WITH RELEASE OF PENCIL IN POCKET																																			
MAA	U	MAA	OLOMMXX	SLODMXX	TABLE	DIMENSION,MEASURE AND MARK STARTS-WITH REACH TO GET MEASURING AND MARKING DEVICES INCLUDES-ALL THE MOTIONS NECESSARY TO GET THE DEVICES,POSITION MEASURING DEVICE TO INDEX POINT,POSITION DEVICE TO SECOND POINT,ADJUST TO BOTH POINTS,READ DIMENSION,POSITION MARKING DEVICE TO SURFACE AND SCALE AT DESIRED LOCA- TION AND MARK SURFACE,ASIDE DEVICES ENDS-WITH ASIDE MEASURING AND MARKING DEVICES CONDITIONS-APPLIES TO 6-12 INCH SCALE, 12-24 INCH RULE,6-10 FOOT STEEL TAPE WITH PENCIL,SCRIBE,AWL OR EQUIVALENT MARKING DEVICE;FLAT OR SEMI-CURVED GEOMETRIC PLANES; OVERHEAD,VERTICAL OR HORIZONTAL WITH DIMENSIONS AND MARKS LIMITED TO WITHIN 36 INCHES OF ANY INITIAL INDEX POINT.TIME IS TO MARK WITH PENCIL,NO PRESSURE. IF SCRIBE OR AWL IS USED ADD TIME FOR ELEMENT U BEL-AP-01(TWO TIMES-16 TMUS X 2-32 TMUS). LOOSE-POSITION DEVICE TO WITHIN 1/16 INCH OF REFERENCE POINTS,READ TO NEAREST 1/4 INCH,MARK TO WITHIN 1/16 INCH OF SCALE GRADUATION.CLOSE- POSITION DEVICE TO WITHIN 1/32 INCH OF REF- ERENCE POINTS,READ TO NEAREST 1/16 INCH,MARK TO WITHIN 1/32 INCH OF SCALE GRADUATION.EXACT- POSITION DEVICE TO WITHIN 1/64 INCH OF REFER- ENCE POINTS,READ TO NEAREST 1/32 INCH,MARK TO WITHIN 1/64 INCH OF SCALE GRADUATION.																																			
						<table><tr><td></td><td>TYPE DEVICE</td><td>LOOSE A</td><td>POSITION CLOSE B</td><td>EXACT C</td></tr><tr><td colspan="5">SCALE(6-12 INCH)OR 12-24 INCH RULE</td></tr><tr><td></td><td>FIRST MEASUREMENT A</td><td>296</td><td>358</td><td>505</td></tr><tr><td></td><td>EACH ADDITIONAL B</td><td>185</td><td>247</td><td>354</td></tr><tr><td colspan="5">STEEL TAPE(6-10 FEET)</td></tr><tr><td></td><td>FIRST MEASUREMENT C</td><td>394</td><td>456</td><td>603</td></tr><tr><td></td><td>EACH ADDITIONAL D</td><td>207</td><td>269</td><td>416</td></tr></table>		TYPE DEVICE	LOOSE A	POSITION CLOSE B	EXACT C	SCALE(6-12 INCH)OR 12-24 INCH RULE						FIRST MEASUREMENT A	296	358	505		EACH ADDITIONAL B	185	247	354	STEEL TAPE(6-10 FEET)						FIRST MEASUREMENT C	394	456	603		EACH ADDITIONAL D	207	269	416
	TYPE DEVICE	LOOSE A	POSITION CLOSE B	EXACT C																																					
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	FIRST MEASUREMENT C	394	456	603																																					
	EACH ADDITIONAL D	207	269	416																																					
MAA	U	MAA	BLUBLXX	BLUBLXX VARIABLE		SURFACE(LINEAR),LUBRICATE WITH BRUSH,CLOTH, FINGER,OR STICK STARTS-WITH APPLICATOR IN HAND AND ON OBJECT INCLUDES-ALL MOTIONS NECESSARY TO SPREAD LUBRICANT WITH ONE WIPING MOTION FORWARD AND BACK ENDS-WITH APPLICATOR IN CONTACT WITH SURFACE CASE 01 LINEAR LUBRICATION TO 6 INCHES 02 LINEAR LUBRICATION 6-12 INCHES																																			

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DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	U	MAA	BLUBSXX	BLUBSXX	VARIABLE	SURFACE (SPOT), LUBRICATE WITH BRUSH, CLOTH, FINGER, OR STICK STARTS-WITH APPLICATION IN HAND AND ON OBJECT INCLUDES-ALL MOTIONS NECESSARY TO SPREAD LUBRICANT ON A SPOT WITH A WIPING MOTION FORWARD AND BACK ENDS-WITH APPLICATION IN CONTACT WITH SURFACE CONDITION-SPOT SIZE IS DETERMINED BY APPLICATOR SIZE CASE 01 SPOT LUBRICATION 02 SPOT LUBRICATION, WITH CARE
AE	U	MAA	FTDLU01	BLUDL01	56	DIE (OR TAP), LUBRICATE WITH OIL FROM LEVER OR DIAPHRAGM TYPE CAN STARTS-WITH MOVEMENT OF SPOUT TO LUBRICATION POINT INCLUDES-ALL MOTIONS NECESSARY TO DEPRESS LEVER OR DIAPHRAGM AND SQUIRT OIL ON DIE OR TAP THREE TIMES ENDS-WITH OIL CAN SPOUT OVER DIE OR TAP
FFH	U	MAA	BLUGB01	BLUGB01	34	LUBRICANT, APPLY TO FITTING WITH BUTTON TYPE GUN STARTS-WITH HAND ON GREASE GUN AND GUN ON FITTING INCLUDES-ALL MOTIONS NECESSARY TO DEPRESS BUTTON AND WAIT WHILE LUBRICANT IS FORCED INTO FITTING BY AIR PRESSURE ENDS-WITH RELEASE OF BUTTON AND WITH GUN ON FITTING CONDITION-APPLIES TO AIR OPERATED GREASE GUN. DOES NOT APPLY TO FILLING A RESERVOIR
FFH	U	MAA	BLUGL01	BLUGL01	36	LUBRICANT, APPLY TO FITTING WITH HAND OPERATED LEVER TYPE GUN (PER STROKE) STARTS-WITH HAND ON LEVER AND GUN ON FITTING INCLUDES-ALL MOTIONS NECESSARY TO MAKE ONE PUMP MOTION AND RETURN LEVER FOR NEXT STROKE ENDS-WITH HAND ON LEVER AND GUN ON FITTING CONDITION-ALSO APPLIES TO LUBRICATION TANKS WHICH HAVE LEVER TYPE PUMPS FOR ONE HANDED USE
FFH	U	MAA	BLUOL01	BLUOL01	28	LUBRICANT, APPLY WITH OIL CAN (PER LINEAR FOOT) STARTS-WITH HAND ON TRIGGER OR CAN AND WITH SPOUT IN PLACE INCLUDES-DEPRESSING TRIGGER OR DIAPHRAGM AND MOVEMENT OF OIL CAN TO COVER SURFACE TO BE LUBRICATED ENDS-WITH HAND ON CAN AFTER LUBRICATION CONDITION-APPLIES TO TRIGGER OR DIAPHRAGM TYPE OIL CANS
FFH	U	MAA	BLUOS01	BLUOS01	18	OIL, APPLY TO SPOT WITH TRIGGER TYPE OIL CAN STARTS-WITH SPOUT IN PLACE AND HAND ON TRIGGER INCLUDES-MOVING TRIGGER IN AND OUT TO LUBRICATE SPOT ENDS-WITH HAND ON TRIGGER AFTER LUBRICATION
FFH	U	MAA	BLUOS02	BLUOS02	15	OIL, APPLY TO SPOT WITH DIAPHRAGM TYPE OIL CAN STARTS-WITH HAND ON DIAPHRAGM AND SPOUT IN PLACE INCLUDES-MOVEMENT OF DIAPHRAGM IN AND OUT TO LUBRICATE ONE SPOT ENDS-WITH HAND ON CAN AFTER LUBRICATION
FFH	U	MAA	BLUTA01	BLUTA01	26	LUBRICANT, APPLY WITH TUBE TO AREA, 1 INCH X 1 INCH STARTS-WITH TUBE IN HAND AND IN PLACE AT BEGINNING POINT OF LUBRICATION INCLUDES-ALL MOTIONS NECESSARY TO SQUEEZE TUBE ONE TIME AND LUBRICATE AREA, 1 INCH X 1 INCH WITH ONE FORWARD AND ONE BACKWARD STROKE ENDS-WITH TUBE IN HAND AFTER LUBRICATING

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION																					
FFH	U	MAA	BLUTS01	BLUTS01	20	LUBRICANT,APPLY WITH TUBE TO SPOT,1/4X1/4 INCH STARTS=WITH TUBE IN HAND AND IN PLACE AT SPOT TO BE LUBRICATED INCLUDES=ALL THE MOTIONS NECESSARY TO SQUEEZE TUBE TO EXTRACT LUBRICANT AND APPLY TO SPOT MEASURING 1/4X1/4 INCH ENDS=WITH TUBE IN HAND AFTER LUBRICATING CONDITION=APPLIES TO TUBES HAVING 1/4 INCH DIAMETER NOZZLE																					
FFD	U	MAA	GEAIN98	SLUALXX	VARIABLE	LUBRICANT,APPLY TO SMALL OBJECT STARTS=WITH REACH TO GET LUBE APPLICATOR INCLUDES=ALL THE MOTIONS NECESSARY TO GET APPLICATOR,GET LUBRICANT ON APPLICATOR,MOVE APPLICATOR TO OBJECT AND APPLY,ASIDE APPLICA- TOR ENDS=WITH ASIDE APPLICATOR 96 CASE 01 APPLY TO VERY SMALL PART(4=SIX INCH MOVES) 124 02 APPLY TO SMALL PART(8=SIX INCH MOVES)																					
FFE	U	MAA	RLGGZXX	SLULAXX	TABLF	LUBRICANT,APPLY TO ZERK FITTING WITH HAND OPERATED GUN STARTS=WITH REACH TO GET GREASE GUN INCLUDES=ALL THE MOTIONS NECESSARY TO GET GREASE GUN,SEAT NOZZLE ON ZERK FITTING,FILL FITTING WITH LUBRICANT,DISENGAGE GUN FROM FITTING,AND ASIDE GUN ENDS=WITH ASIDE GUN CONDITIONS=APPLIES TO HAND LEVER TYPE GREASE GUN ONLY <table><tr><th>STROKES TO FILL FITTING</th><th>FIRST OR ONLY FITTING A</th><th>EACH ADDITIONAL FITTING B</th></tr><tr><td>1</td><td>A</td><td>165</td></tr><tr><td>2</td><td>B</td><td>201</td></tr><tr><td>3</td><td>C</td><td>237</td></tr><tr><td>4</td><td>D</td><td>273</td></tr><tr><td>5</td><td>E</td><td>309</td></tr><tr><td>6</td><td>F</td><td>345</td></tr></table>	STROKES TO FILL FITTING	FIRST OR ONLY FITTING A	EACH ADDITIONAL FITTING B	1	A	165	2	B	201	3	C	237	4	D	273	5	E	309	6	F	345
STROKES TO FILL FITTING	FIRST OR ONLY FITTING A	EACH ADDITIONAL FITTING B																									
1	A	165																									
2	B	201																									
3	C	237																									
4	D	273																									
5	E	309																									
6	F	345																									
FFD	U	MAA	BMHSM01	BMHOS01	30	OBJECT,START MOVING BY PUSHING(WHEELED OBJECT) STARTS=WITH HAND(S) ON OBJECT TO BE MOVED INCLUDES=APPLY PRESSURE AND MOVE UP TO 12 INCHES ENDS=WITH HAND(S)ON OBJECT CONDITION=ALSO APPLIES TO STOPPING OBJECT BEING PUSHED																					
NF	U	MAL	2242	BMHWP01	160	WHEELBARRROW,PICK UP HANDLES AND PUT DOWN STARTS=WITH BEND TO HANDLE INCLUDES=ALL THE MOTIONS NECESSARY TO BEND, GRASP HANDLES,ARISE;AND BEND,RELEASE HANDLES AND ARISE ENDS=WITH ARISE AFTER RELEASE OF HANDLES CONDITION=ENW NOMINAL																					
FFD	U	MAA	NMHOW01	NMHOS01	42	OBJECT,START MOVEMENT BY PUSHING STARTS=WITH REACH TO HANDLE INCLUDES=GET HANDLES,APPLY PRESSURE AND MOVE APPROXIMATELY 12 INCHES ENDS=WITH OBJECT IN MOTION CONDITION=APPLICABLE TO WHEEL MOUNTED OBJECTS SUCH AS CARTS,WAGONS,ETC.																					

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	J	MAA	BNFBS01	BNF8T01	197	BOW,TIE IN STRING ON OBJECT STARTS-WITH STRING WRAPPED ON PACKAGE AND END IN HAND INCLUDES-HAND AND FINGER MOTIONS REQUIRED TO FORM AND SECURE BOW KNOT ENDS-WITH RELEASE OF BOW
FFD	U	MAA	BNFBS02	BNFBU01	40	BOW,UNTIE STARTS-WITH REACH TO END OF STRING INCLUDES-ALL MOTIONS NECESSARY TO UNTIE BOW AND SINGLE KNOT ENDS-WITH RELEASE OF STRING
FFF	U	MAA	BNFKD01	BNFKT01	215	KNOT,TIE,SQUARE,USING TWO ENDS OF STRING STARTS-WITH STRING WRAPPED ON PACKAGE AND ENDS IN HAND INCLUDES-ALL FINGER AND HAND MOTIONS NECESSARY TO FORM AND SECURE SQUARE KNOT ENDS-WITH KNOT PULLED TIGHT, STRING ENDS IN HAND CONDITION-BOTH ENDS OF STRING CUT BEFORE TYING
FFF	U	MAA	BNFKS01	BNFKT02	101	KNOT,TIE,HALF HITCH,USING SINGLE END OF LINE STARTS-WITH STRING WRAPPED ON PACKAGE AND RUNNER IN HAND INCLUDES-ALL HAND AND FINGER MOTIONS NECESSARY TO FORM AND SECURE HALF HITCH KNOT ENDS-WITH KNOT PULLED TIGHT AND STRING IN HAND CONDITION-END OF LINE CUT BEFORE TYING
FFF	U	MAA	BNFKS02	BNFKT03	95	KNOT,TIE,(STRING),SLIP HALF HITCH,USING SINGLE END OF LINE STARTS-WITH STRING WRAPPED ON PACKAGE AND RUNNER IN HAND INCLUDES-ALL HAND AND FINGER MOTIONS NECESSARY TO FORM AND SECURE SLIP HALF HITCH KNOT ENDS-WITH KNOT PULLED TIGHT AND STRING IN HAND CONDITION-END OF LINE CUT BEFORE TYING
FFF	U	MAA	BNFKS03	BNFKT04	70	KNOT,TIE,CLOVE HITCH,USING SINGLE END OF LINE STARTS-WITH STRING WRAPPED ON PACKAGE AND RUNNER IN HAND INCLUDES-ALL HAND AND FINGER MOTIONS NECESSARY TO FORM AND SECURE CLOVE HITCH ENDS-WITH KNOT PULLED TIGHT AND STRING IN HAND CONDITION-END OF STRING CUT BEFORE TYING
FFF	U	MAA	BNFKS04	BNFKT05	83	KNOT,TIE(STRING),BOWLINE,USING SINGLE END OF LINE STARTS-WITH STRING WRAPPED ON PACKAGE AND RUNNER IN HAND INCLUDES-ALL HAND AND FINGER MOTIONS NECESSARY TO FORM AND SECURE BOWLINE KNOT ENDS-WITH KNOT PULLED TIGHT AND STRING IN HAND CONDITION-END OF STRING CUT BEFORE TYING
NF	U	MAA	PMB4Q	BNFKT06	78	KNOT,TIE(ROPE),HALF HITCH STARTS-WITH ROPE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO TIE A HALF HITCH KNOT ENDS-WITH RELEASE OF KNOT CONDITIONS-APPLICABLE TO RIGGING OR SIMILAR OPERATIONS
NF	U	MAF	1608	BNFKT07	147	KNOT,TIE(ROPE),CLOVE HITCH STARTS-WITH ROPE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO TIE CLOVE HITCH,RING,OR COW HITCH KNOT ENDS-WITH RELEASE OF ROPE CONDITION-APPLICABLE TO RIGGING OR SIMILAR OPERATIONS

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DMNSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	U	MAF	1606	BNFKT08	100	KNOT,TIE(ROPE),BOWLINE STARTS-WITH ROPE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO TIE BOWLINE KNOT ENDS-WITH RELEASE OF ROPE CONDITIONS-APPLICABLE TO RIGGING OR SIMILAR OPERATIONS
NF	U	MAA	1607	BNFKT09	267	KNOT,TIE(RUPE),BARREL HITCH,TIMBER HITCH,OR STOPPER STARTS-WITH RUPE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO TIE A BARREL HITCH,TIMBER HITCH,OR STOPPER KNOT ENDS-WITH RELEASE OF THE ROPE CONDITION-APPLICABLE TO RIGGING OR SIMILAR OPERATIONS
NF	U	MAA	1609	BNFKT10	164	KNOT,TIE(ROPE),SQUARE STARTS-WITH ROPE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO TIF A SQUARE KNOT ENDS-WITH RELEASE OF ROPE CONDITION-APPLICABLE TO RIGGING OR SIMILAR OPERATIONS
DNA	U	MAA	JPANNEA	NNFENXX	VARIABLE	EDGE,MASK WITH PAPER TAPE STARTS-WITH ROLL OF TAPE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO PLACE END OF TAPE TO FIRST POINT,UNROLL ONE FOOT OF TAPE, POSITION TAPE TO SURFACE,SMOOTH AND SEAT TAPE WITH HAND,AND TEAR TAPE FROM ROLL ENDS-WITH ROLL OF TAPE IN HAND
					487	CASE 01 MASK FIRST OR SINGLE FOOT,POSITION TAPE EXACT
					369	02 MASK EACH ADDITIONAL FOOT,TAPE TORN FROM ROLL AFTER MASKING EACH FOOT, POSITION TAPE EXACT
					344	03 MASK EACH ADDITIONAL FOOT,CONTINUOUS TAPING,POSITION TAPE EXACT
					298	04 MASK FIRST OR SINGLE FOOT,POSITIUN TAPE APPROXIMATE
					116	05 MASK EACH ADDITIONAL FOOT,TAPE TURN FROM ROLL AFTER MASKING EACH FOOT, POSITION TAPE APPROXIMATE
					95	06 MASK EACH ADDITIONAL FOOT,CONTINUOUS TAPING,POSITION TAPE APPROXIMATE
AE	U	MAW	SECEAXX	NNFFOXX	VARIABLE	FASTENER,OPEN AND CLOSE ON CASE STARTS-WITH REACH TO FASTENER INCLUDES-ALL MOTIONS NECESSARY TO OPEN AND CLOSE FASTENER ENDS-WITH RELEASE OF FASTENER
					64	CASE 01 LUGGAGE TYPE FASTENER
					71	02 BAIL TYPE FASTENER
FFE	U	MAA	GPLPA01	NNFIP01	93	PLUG(OR CAP),INSTALL,NON-THREADED PLASTIC STARTS-WITH REACH TO PLUG INCLUDES-ALL MOTIONS NECESSARY TO POSITION PLUG TO OPENING AND APPLY PRESSURE TO SEAT PLUG ENDS-WITH RELEASE OF PLUG

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTD ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
FFE	J	MAA	GNFSAAX	MNFI5XX	VARIABLE	WIRE(SAFETY),INSTALL USING SAFETY WIRE TWISTING PLIERS STARTS-WITH REACH TO SAFETY WIRE TWISTING PLIERS INCLUDES-ALL MOTIONS NECESSARY TO GET PLIERS, GET LENGTH OF SAFETY WIRE FROM ROLL, THREAD WIRE THROUGH ANCHOR POINT,TWIST WIRE WITH TWISTING PLIERS,CUT EXCESS WIRE,AND FOLD END OVER,CASE 02 INCLUDES ONLY THREAD WIRE THROUGH ANCHOR POINT AND TWIST WITH TWISTING PLIERS ENDS-WITH RELEASE OF TWISTING PLIERS CONDITION-APPLICABLE TO SAFETY WIRE TO .0625 INCH DIAMETER CASE 01 SINGLE OR FIRST ANCHOR POINT 02 EACH ADDITIONAL ANCHOR POINT
					903 581	
FFF	U	MAA	MNFK108	MNFK101	311	KEY,INSTALL,WOODRUFF WITH HAMMER AND DRIFT PUNCH STARTS-WITH GET KEY INCLUDES-ALL MOTIONS NECESSARY TO INSTALL WOODRUFF KEY USING HAMMER AND DRIFT PUNCH ENDS-WITH LAY TOOLS ASIDE
FFF	U	MAA	MNFK109	MNFK102	87	KEY,INSTALL,STRAIGHT MACHINE,LOOSE FIT,NO TOOLS NEEDED STARTS-WITH GET KEY INCLUDES-ALL MOTIONS NECESSARY TO INSTALL KEY IN SLOT WHEN NO TOOLS ARE NEEDED ENDS-WITH RELEASE OF KEY AFTER INSTALLATION
FFF	U	MAA	MNFK110	MNFK103	293	KEY,INSTALL,STRAIGHT MACHINE,TIGHT FIT,USE OF HAMMER AND DRIFT PUNCH REQUIRED STARTS-WITH GET KEY INCLUDES-ALL MOTIONS NECESSARY TO INSTALL TIGHT FITTING KEY USING HAMMER AND DRIFT PUNCH ENDS-WITH PLACE TOOLS ASIDE
FFF	U	MAA	MNFKR07	MNFKR01	370	KEY,REMOVE,WOODRUFF,WITH HAMMER AND DRIFT PUNCH STARTS-WITH GET TOOLS INCLUDES-ALL MOTIONS NECESSARY TO USE HAMMER AND DRIFT PUNCH TO REMOVE WOODRUFF KEY ENDS-WITH PLACE TOOLS AND KEY ASIDE
FFF	U	MAA	MNFKR08	MNFKR02	38	KEY,REMOVE,STRAIGHT MACHINE,LOOSE FIT,NO TOOLS REQUIRED STARTS-WITH REACH TO KEY INCLUDES-ALL MOTIONS NECESSARY TO REMOVE LOOSE FITTING KEY FROM SLOT ENDS-WITH PLACE KEY ASIDE
FFF	U	MAA	MNFKR09	MNFKR03	258	KEY,REMOVE,STRAIGHT MACHINE,HAMMER AND DRIFT PUNCH REQUIRED STARTS-WITH REACH TO TOOL INCLUDES-ALL MOTIONS NECESSARY TO GET TOOLS, DRIVE KEY FROM SEAT,AND PLACE TOOLS AND KEY ASIDE ENDS-WITH RELEASE OF KEY
FFF	U	MAA	MNFKR01	MNFKR04	286	KEY,REMOVE,TAPERED MACHINE,HAMMER AND PUNCH REQUIRED STARTS-WITH REACH TO TOOLS INCLUDES-ALL MOTIONS NECESSARY TO GET TOOLS, DRIVE KEY FROM SEAT,AND PLACE TOOLS AND KEY ASIDE ENDS-WITH RELEASE OF KEY

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	QWMSTDP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
FFF	U	NAA	MNFLCXX	MNFLCXX	VARIABLE	<p>LOCK(LATCH),CLOSE AND LOCK STARTS-WITH REACH TO LOCK OR LATCH INCLUDES-ALL MOTIONS NECESSARY TO CLOSE LOCK OR LATCH ENDS-WITH RELEASE OF LOCK,LATCH,OR KEY</p> <p>85 CASE 01 PADLOCK,KEY-OPERATED,ATTACH AND LOCK 159 02 PADLOCK,COMBINATION,ATTACH AND LOCK 49 03 MOUNTED LOCK,0-90 DEGREE KEY TURN 77 04 MOUNTED LOCK 90-360 DEGREE KEY TURN 109 05 MOUNTED LOCK,COMBINATION TYPE 91 06 SUITCASE TYPE LATCH 46 07 HOOK AND EYE TYPE LATCH</p>
FFF	U	NAA	MNFLOXX	MNFLOXX	VARIABLE	<p>LOCK(LATCH),OPEN AND MOVE ASIDE STARTS-WITH REACH TO LOCK OR LATCH INCLUDES-ALL MOTIONS NECESSARY TO OPEN LOCK OR LATCH AND MOVE ASIDE ENDS-WITH RELEASE OF LOCK OR LATCH</p> <p>163 CASE 01 PADLOCK,KEY OPERATED 388 02 PADLOCK,COMBINATION 96 03 MOUNTED LOCK,0-90 DEGREE KEY TURN 149 04 MOUNTED LOCK,90-360 DEGREE KEY TURN 317 05 MOUNTED LOCK,COMBINATION TYPE 77 06 HASP TYPE LATCH 26 07 SLIDE OR SWING TYPE LATCH 38 08 CAM TYPE SUITCASE LATCH 21 09 TURN LATCH 38 10 HOOK AND EYE TYPE LATCH</p>
AF	U	NAD	BXCLOO1	MNFLT01	48	<p>LATCH,TURN TO CLOSE BOX OR CONTAINER STARTS-WITH REACH TO LATCH WITH LEFT HAND AND TO HASP WITH RIGHT HAND INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE HASP OVER LOCKING LATCH AND TURN LATCH TO SECURE LID ON BOX ENDS-WITH RELEASE OF CLOSED LATCH</p>
AF	U	NAD	BXCLOO2	MNFLT02	47	<p>LATCH,TURN TO OPEN BOX OR CONTAINER STARTS-WITH REACH TO LATCH INCLUDES-ALL THE MOTIONS NECESSARY TO TURN LATCH AND RELEASE HASP ENDS-WITH RELEASE OF HASP</p>
NF	U	NAF	567	MNFP001	173	<p>PASTE,APPLY WITH BRUSH STARTS-WITH APPLICATOR BRUSH IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO DIP BRUSH IN PASTE,WIPE OFF EXCESS ON LIP OF CAN, APPLY PASTE TO OBJECT/SURFACE AND RETURN BRUSH TO CAN ENDS-WITH HAND ON BRUSH AND BRUSH IN CAN CONDITIONS-DIP ONE TIME-APPLY WITH THREE NINE INCH STROKES FORWARD AND THREE NINE INCH MOVES BACK TO START POINT</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	OWMSTDP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
FFF	U	MAA	MMFPIKX	MMFPIKX	VARIABLE	PIN, INSTALL, VARIOUS TYPES STARTS-WITH REACH TO PIN INCLUDES-ALL MOTIONS NECESSARY TO GET PIN(S) AND TOOLS, INSTALL PIN(S), AND PLACE TOOL ASIDE ENDS-WITH RELEASE OF TOOL CONDITIONS-PARTS AND TOOLS WITHIN 9-15 INCHES OF USAGE POINT
					210	CASE 01 SINGLE COTTER PIN TO .125 INCH DIAMETER, ENDS SPREAD BUT NOT FLATTENED AGAINST ASSEMBLY
					232	02 SINGLE COTTER PIN, .125-.250 INCH DIAMETER, ENDS SPREAD BUT NOT FLATTENED AGAINST ASSEMBLY
					264	03 FIRST OF A SERIES OF COTTER PINS, .125- .250 INCH DIAMETER, ENDS SPREAD BUT NOT FLATTENED AGAINST ASSEMBLY
					360	04 SINGLE COTTER PIN TO .125 INCH DIAMETER, ENDS SPREAD AND FLATTENED AGAINST ASSEMBLY
					390	05 SINGLE COTTER PIN, .125-.250 INCH DIAMETER, ENDS SPREAD AND FLATTENED AGAINST ASSEMBLY
					422	06 FIRST OF A SERIES OF COTTER PINS, .125- .250 INCH DIAMETER, ENDS SPREAD AND FLATTENED AGAINST ASSEMBLY
					311	07 SINGLE DOWELL OR CYLINDRICAL PIN WITH HAMMER, MAXIMUM .50 INCH DRIVE FIT
					63	08 SINGLE PIN OR OTHER CYLINDRICAL PART TO 4 INCHES LONG AND 1 INCH DIAMETER CLOSE FIT, NO BINDING, NO TOOLS REQUIRED
					129	09 SINGLE TAPER PIN, LOOSE FIT, NO TOOLS
					195	10 SINGLE TAPER PIN, TIGHT FIT, USE HAMMER
					91	11 SINGLE STRAIGHT PIN, INSERT IN CLOTH OR SIMILAR MATERIAL
					194	12 SINGLE SAFETY PIN
FFF	U	MAA	MMFPP02	MMFPP01	40	PIN, PREPARE TO PRESS (REMOVAL) STARTS-WITH MOVE PUNCH TO LOCATION INCLUDES-POSITION PUNCH TO PIN OR CYLINDRICAL PART AND REMOVE PUNCH AFTER PRESS IS COMPLETE ENDS-WITH PUNCH CLEAR OF HOLE AND IN HAND CONDITIONS-APPLIES TO PIN OR CYLINDRICAL PART TO 1 INCH DIAMETER. DOES NOT INCLUDE GET PUNCH OR LAY ASIDE PART
FFF	U	MAA	MMFPP01	MMFPP02	107	PIN, PREPARE TO PRESS (INSTALLATION) STARTS-WITH REACH TO PIN OR CYLINDRICAL PART INCLUDES-ALL MOTIONS NECESSARY TO GET PIN OR CYLINDRICAL PART, DIP IN LUBRICANT, AND PLACE TO LOCATION FOR PRESSING ENDS-WITH PART IN POSITION FOR PRESSING CONDITION-APPLIES TO PIN OR CYLINDRICAL PART TO ONE INCH DIAMETER

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	THU VALUE	OPERATION/ELEMENT DESCRIPTION
FFF	U	MAA	NNFPKXX	NNFPKXX	VARIABLE	PIN, REMOVE, VARIOUS TYPES STARTS-WITH REACH TO TOOL OR PART INCLUDES-ALL MOTIONS NECESSARY TO GET TOOL REMOVE PIN OR PART, AND LAY ASIDE TOOL AND PIN ENDS-WITH RELEASE OF TOOL CONDITION-PARTS AND TOOLS WITHIN 9-15 INCHES OF USAGE POINT
					203	CASE 01 FIRST OR SINGLE COTTER PIN, TO .125 INCH DIAMETER, ENDS SPREAD, NOT FLATTENED AGAINST ASSEMBLY
					288	02 FIRST OR SINGLE COTTER PIN, .125-.250 INCH DIAMETER, ENDS SPREAD, NOT FLATTENED AGAINST ASSEMBLY
					349	03 COTTER PIN TO .125 INCH DIAMETER, ENDS SPREAD AND FLATTENED AGAINST ASSEMBLY
					456	04 COTTER PIN, .125-.250 IN. DIAMETER ENDS SPREAD AND FLATTENED AGAINST ASSEMBLY
					183	05 TAPER PIN, DOWEL PIN, OR OTHER CYLINDRICAL PART WITH HAMMER AND DRIFT PUNCH
					39	06 FIRST CYLINDRICAL PART TO 4 INCHES LONG AND 1 INCH DIAMETER, CLOSE FIT, NO TOOLS REQUIRED
					43	07 FIRST OR SINGLE STRAIGHT PIN, LITTLE OR NO RESISTANCE
					116	08 FIRST OR SINGLE SAFETY PIN
FFF	U	MAA	NNFKI01	NNFRI01	271	RING(SNAP), INSTALL, INTERNAL OR EXTERNAL, UP TO ONE INCH FROM END OF PART USING SPECIAL SNAP RING PLIERS STARTS-WITH GET TOOL AND SNAP RING INCLUDES-ALL MOTIONS NECESSARY TO INSTALL INTERNAL OR EXTERNAL SNAP RING ENDS-WITH PLACE PLIERS ASIDE
FFE	U	MAA	GPLPKXX	NNFRPXX	VARIABLE	PLUG (OR CAP), REMOVE, NON-THREADED PLASTIC, USING A SCREWDRIIVER STARTS-WITH GET SCREWDRIIVER INCLUDES-ALL MOTIONS NECESSARY TO PRY PLUG WITH SCREWDRIIVER AT FOUR POINTS AND REMOVE PLUG ENDS-WITH ASIDE PLUG AND SCREWDRIIVER
					339	CASE 01 FIRST PLUG
					306	02 EACH ADDITIONAL PLUG
FFF	U	MAA	NNFR001	NNFR001	136	RETAINER, REMOVE, SNAP RING, INTERNAL OR EXTERNAL USING SNAP RING PLIERS STARTS-WITH GET PLIERS INCLUDES-ALL MOTIONS NECESSARY TO USE PLIERS TO REMOVE INTERNAL OR EXTERNAL SNAP RING FROM GROOVE UP TO ONE INCH FROM END OF PART ENDS-PLACE RING AND PLIERS ASIDE
FFF	U	MAA	NNFKR04	NNFR002	865	RETAINER, REMOVE, RING, SPRING, LOCKWIRE OR FLAT STEEL, USING TOOLS STARTS-WITH GET TOOLS INCLUDES-ALL MOTIONS NECESSARY TO REMOVE A RETAINER RING, SPRING OR LOCKWIRE WITH PRY TOOL AND PLIERS ENDS-WITH PLACE RING ASIDE
FFF	U	MAA	NNFKR06	NNFR003	146	RETAINER, REMOVE, SNAP ON CLIP TYPE, USING PLIERS STARTS-WITH GET PLIERS INCLUDES-ALL MOTIONS NECESSARY TO USE PLIERS TO REMOVE CLIP TYPE RETAINER ENDS-WITH PLACE RETAINER ASIDE

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTD ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
MAA	U	MAA	ONFRTXX	MNFRTXX	VARIABLE	RETAINFR(THU-ARC), INSTALL OR REMOVE STARTS-WITH REACH TO RING OR THU-ARC PLIERS INCLUDES-ALL THE MOTIONS NECESSARY TO GET RING AND TOOL, ENGAGE TOOL AND THU-ARC RING, SQUEEZE RING AND PLACE IN SLOT, RELEASE RING, ASIDE TOOL, GET PLIERS, INSERT IN RING AND REMOVE, ASIDE TOOL AND RING(SIMO) ENDS-WITH ASIDE TOOL CONDITIONS-APPLIES TO BOTH EXTERNAL AND IN- TERNAL GROOVES UP TO ONE INCH DEPTH CASE 01 INSTALL FIRST RING 02 INSTALL EACH ADDITIONAL RING 03 REMOVE FIRST RING 04 REMOVE EACH ADDITIONAL RING
					221	
					178	
					176	
					133	
DL	U	NAL	H13	MNFS101	51	STAPLE, INSTALL WITH PLIER GRIP STAPLER STARTS-WITH ITEM(S) TO BE STAPLED UNDER CONTROL BY LEFT HAND AND STAPLER IN RIGHT HAND INCLUDES-ALL MOTIONS NECESSARY TO POSITION STAPLER FOR STAPLING, APPLY ONE STAPLE AND REMOVE STAPLER FROM SURFACE ENDS-WITH STAPLER IN HAND
FFF	U	MAA	MNFSR02	MNFSR01	86	STAPLE, REMOVE, 3/8 OR 1/2 INCH, USING PLIER TYPE STAPLE REMOVER STARTS-WITH ONE HAND ON STAPLED OBJECT AND STAPLE REMOVER IN OTHER HAND INCLUDES-ALL MOTIONS NECESSARY TO USE PLIER TYPE STAPLE REMOVER TO REMOVE ONE STAPLE ENDS-WITH STAPLE REMOVED AND STAPLE REMOVER IN HAND
FFF	U	MAA	MNFAAXX	MNFTAXX	VARIABLE	TAPE(ADHESIVE), ATTACH TO DESIRED POSITION STARTS-WITH REACH TO END OF TAPE ON ROLL INCLUDES-ALL MOTIONS NECESSARY TO GET TAPE FROM ROLL IN DISPENSER, APPLY TO DESIRED POSITION, AND SEAT WITH FINGERTIPS OR HEEL OF HAND ENDS-WITH TAPE IN POSITION CONDITION-TAPE IN DISPENSER, END NOT STUCK TO ROLL(EACH CASE INCLUDES A CONSTANT VALUE OF 95 TMU(SOURCE CODE=MNF-SS-C1)) CASE 01 APPLY TAPE TO 1 INCH LONG 02 APPLY TAPE 1-3 INCHES LONG 06 APPLY TAPE 3-9 INCHES LONG 12 APPLY TAPE 9-15 INCHES LONG 18 APPLY TAPE 15-21 INCHES LONG 24 APPLY TAPE 21-27 INCHES LONG
					107	
					116	
					129	
					142	
					155	
					168	
FFF	U	MAA	MNFTFX	MNFTFX	VARIABLE	TURNLOCK, FASTEN OR UNFASTEN(DZUS, CAMLOCK, ETC.) STARTS-WITH REACH TO PART INCLUDES-ALL MOTIONS NECESSARY TO ACCOMPLISH MINOR REPOSITIONING OF PART FOR ACCESS AND TO TURN LOCK UP TO 90 DEGREES TO FASTEN OR UNFASTEN ENDS-WITH RELEASE OF TURNLOCK OR TOOL CASE 01 TURN BY HAND(LOCK WITH WINGED OR SERRATED HEAD) 02 TURN WITH TOOL(INCLUDES GET AND ASIDE TOOL)
					69	
					115	
AF	U	MAO	TAGD001	MNFTG01	65	TAPE, GET FROM DISPENSER, 6 INCH LENGTH OF TAPE STARTS-WITH REACH TO TAPE WITH RIGHT HAND AND TO DISPENSER WITH LEFT HAND INCLUDES-ALL THE MOTIONS NECESSARY TO HOLD DISPENSER WITH LEFT HAND, PULL SIX INCHES OF TAPE WITH RIGHT HAND, TEAR IT FROM DISPENSER AND GRASP FREE END OF TAPE WITH OTHER HAND ENDS-WITH TAPE HELD IN BOTH HANDS 12 INCHES FROM DISPENSER

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFE	U	MAA	GJPAT01	MNFTRO1	167	TAPE, REMOVE FROM ROLL STARTS-WITH REACH TO GET ROLL OF TAPE INCLUDES-ALL THE MOTIONS NECESSARY TO PULL A STRIP OF TAPE FROM A ROLL, TEAR OFF LENGTH AND ASIDE ROLL OR PIECE OF TAPE ENDS-WITH ROLL OR PIECE OF TAPE ASIDE CONDITIONS-PIECE UP TO 27 INCHES, LIMITED TO MASKING TAPE ON ROLLS TO THREE INCHES WIDE
FFE	U	MAA	GJPATA6	MNFTRO2	97	TAPE, REMOVE FROM OBJECT STARTS-WITH REACH TO TAPE INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP THE END OF A PIECE OF TAPE, PULL LOOSE FROM AN OBJECT, ROLL TAPE UP AND ASIDE USED TAPE ENDS-WITH ASIDE USED TAPE CONDITIONS-APPLIES TO PIECES OF TAPE FROM ONE TO NINE INCHES LONG
FFE	U	MAA	GNCHTDI	MNFTRO3	191	TAPE (MASKING), REMOVE STARTS-WITH REACH FOR END OF TAPE INCLUDES-ALL THE MOTIONS NECESSARY TO GET END OF TAPE WITH HAND, HOLD OBJECT WITH OTHER HAND, PULL TAPE LOOSE FROM OBJECT AND ASIDE ENDS-WITH ASIDE TAPE CONDITION-TAPE IS 15-21 INCHES LONG
FFF	U	MAA	MNFTLXX	MNFTTXX	VARIABLE	TAPE, TEAR FROM LOOSE ROLL DISPENSER STARTS-WITH REACH TO DISPENSER INCLUDES-ALL MOTIONS NECESSARY TO HOLD DISPENSER, GET TAPE NEAR CUTTER EDGE, PULL SPECIFIED LENGTH, CUT TAPE, ASIDE DISPENSER, AND GET END OF TAPE WITH OTHER HAND ENDS-WITH TAPE IN HANDS CONDITION-EACH CASE INCLUDES A CONSTANT VALUE OF 96 TMU (SOURCE CODE MNF-TL-C11) CASE 01 GET AND TEAR TAPE, UP TO ONE INCH 02 GET AND TEAR TAPE, 1-3 INCH LENGTH 06 GET AND TEAR TAPE, 3-9 INCH LENGTH 12 GET AND TEAR TAPE, 9-15 INCH LENGTH 18 GET AND TEAR TAPE, 15-21 INCH LENGTH 24 GET AND TEAR TAPE, 21-27 INCH LENGTH
FFF	U	MAA	MNFS001	MNFWC01	94	WIRE (SAFETY), CUT OFF EXCESS AND BEND END OVER, TWISTED SINGLE STRAND TO .0625 INCH DIAMETER STARTS-WITH PLIERS (WIRE TWISTERS) IN HAND INCLUDES-ALL MOTIONS NECESSARY TO USE WIRE TWISTERS TO CUT OFF EXCESS TWISTED SAFETY WIRE AND BEND END TO 180 DEGREES ENDS-WITH PLIERS IN HAND
FFF	U	MAA	MNFS1XX	MNFW1XX	VARIABLE	WIRE (SAFETY), INSERT THROUGH HOLE STARTS-WITH WIRE HELD IN LEFT HAND AND REACH TO WIRE WITH RIGHT HAND INCLUDES-ALL MOTIONS NECESSARY TO GET WIRE WITH RIGHT HAND, MOVE FROM OVER ANCHOR, ALIGN TO HOLE HORIZONTALLY, PUSH WIRE THROUGH HOLE, GRASP END OF WIRE WITH LEFT HAND, AND PULL THROUGH HOLE ENDS-WITH WIRE HELD IN LEFT HAND CONDITIONS-MAXIMUM LENGTH-27 INCHES DOUBLE STRAND WIRE TO .0625 INCH DIAMETER; NO TOOLS REQUIRED. EACH CASE INCLUDES A CONSTANT VALUE 97 TMU (SOURCE CODE MNF-S1-C11) CASE 02 INSERT 1-3 INCHES WIRE THROUGH HOLE 06 INSERT 3-9 INCHES WIRE THROUGH HOLE 12 INSERT 9-15 INCHES WIRE THROUGH HOLE 18 INSERT 15-21 INCHES WIRE THROUGH HOLE 24 INSERT 21-27 INCHES WIRE THROUGH HOLE

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
FFF	U	MAA	MNFSQXX	MNFMQXX	VARIABLE	<p>WIRE, OBTAIN FROM ROLL AND STRAIGHTEN END STARTS-WITH CUTTING PLIERS IN HAND AND REACH TO WIRE INCLUDES-ALL MOTIONS NECESSARY TO GET WIRE FROM ROLL, CUT TO DESIRED LENGTH, AND STRAIGHTEN END WITH FINGERS ENDS-WIRE AND PLIERS IN HAND CONDITION-APPLIES TO WIRE UP TO .0625 INCH DIAMETER</p> <p>CASE 06 3-9 INCHES, OBTAIN AND STRAIGHTEN 12 9-15 INCHES, OBTAIN AND STRAIGHTEN 18 15-21 INCHES, OBTAIN AND STRAIGHTEN 24 21-27 INCHES, OBTAIN AND STRAIGHTEN 30 27-33 INCHES, OBTAIN AND STRAIGHTEN 36 33-39 INCHES, OBTAIN AND STRAIGHTEN 42 39-45 INCHES, OBTAIN AND STRAIGHTEN 48 45-51 INCHES, OBTAIN AND STRAIGHTEN</p>
FFF	U	MAA	MNFSR01	MNFWR01	184	<p>WIRE (SAFETY), REMOVE FROM FIRST STATION, SINGLE STRAND STARTS-WITH REACH TO DIAGONAL PLIERS INCLUDES-ALL MOTIONS NECESSARY TO GET DIAGONAL PLIERS, CUT SINGLE STRAND SAFETY WIRE AND REMOVE FROM FIRST LOCKING POINT, AND PLACE WIRE AND PLIERS ASIDE ENDS-WITH RELEASE OF WIRE AND PLIERS</p>
FFF	U	MAA	MNFSR03	MNFWR02	270	<p>WIRE (SAFETY), REMOVE, DOUBLE STRAND, TWISTED, FIRST STATION STARTS-WITH REACH TO DIAGONAL PLIERS INCLUDES-ALL MOTIONS NECESSARY TO CUT BOTH STRANDS OF WIRE EVERY OTHER TIME, DISENGAGE BOTH STRANDS EACH TIME AND PLACE WIRE ASIDE ENDS-WITH RELEASE OF WIRE AND DIAGONAL PLIERS</p>
FFF	U	MAA	MNFSR04	MNFWR03	225	<p>WIRE (SAFETY), REMOVE, DOUBLE STRAND, TWISTED ADDITIONAL STATION UP TO 6 INCHES APART STARTS-WITH REACH TO WIRE WITH DIAGONAL PLIERS INCLUDES-ALL MOTIONS NECESSARY TO CUT BOTH STRANDS OF WIRE EVERY OTHER TIME, DISENGAGE BOTH STRANDS EACH TIME AND PLACE WIRE ASIDE ENDS-WITH PLIERS IN HAND AND RELEASE OF WIRE</p>
FFF	U	MAA	MNFSXX	MNFSXX	VARIABLE	<p>WIRE (SAFETY), SECURE TO ANCHOR STATION WITH ONE TWIST BY HAND STARTS-WIRE HELD IN LEFT HAND INCLUDES-ALL MOTIONS NECESSARY TO MAKE FIRST TWIST IN WIRE AFTER THREADING THROUGH HOLE ENDS-WITH COMPLETION OF TWIST AND ONE END OF WIRE HELD IN EACH HAND CONDITIONS-ONE COMPLETE TWIST; NO TOOL NECESSARY; 15 INCHES MAXIMUM LENGTH, DOUBLE STRAND WIRE TO .0625 INCH DIAMETER. EACH CASE INCLUDES A CONSTANT VALUE OF 68 TNU (SOURCE CODE MNF-SS-C1)</p> <p>CASE 01 SAFETY WIRE TO 1 INCH LONG 02 SAFETY WIRE 1-3 INCHES LONG 06 SAFETY WIRE 3-9 INCHES LONG 12 SAFETY WIRE 9-15 INCHES LONG</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION																								
FFF	U	NAA	MNFSTXX	MNFWTXX	VARIABLE	WIRF(SAFETY),TWIST BETWEEN ANCHORS WITH SAFETY WIRE PLIERS,WIRE TO .0625 INCH DIAMETER STARTS-WITH ONE END OF WIRE IN EACH HAND INCLUDES-ALL MOTIONS NECESSARY TO ATTACH SAFETY WIRE PLIERS TO WIRE,TWIST WIRE,AND REMOVE PLIERS ENDS-WITH WIRE IN HAND AND PLIERS ASIDE NOT RELEASED CONDITIONS-APPLICABLE TO SAFETY WIRE IN UNOBSTRUCTED AREA.MAXIMUM DISTANCE BETWEEN ANCHORS 6 INCHES.FRACTIONAL TWIST OF ENDS AT FINAL STATION FOR SINGLE STRAND. 252 CASE 01 ATTACH PLIERS TO WIRE,PREPARE TO TWIST,AND REMOVE PLIERS FROM WIRE (CONSTANT PORTION OF CASES 02-07) 287 02 SECURE SAFETY WIRE-ONE TWIST 304 03 SECURE SAFETY WIRE-TWO TWISTS 327 04 SECURE SAFETY WIRE-THREE TWISTS 345 05 SECURE SAFETY WIRE-FOUR TWISTS 363 06 SECURE SAFETY WIRE-FIVE TWISTS 381 07 SECURE SAFETY WIRE-SIX TWISTS																								
NAA	U	NAL	SPPNNXX	TNFNSXX	TABLE	NAIL,SET AND DRIVE STARTS-WITH REACH TO GET NAIL INCLUDES-ALL THE MOTIONS NECESSARY TO GET A NAIL,POSITION NAIL FOR DRIVING,GET HAMMER AND STRIKE NAIL,BEND TO NAILING POSITION WHEN REQUIRED,CHECK NAIL POSITION AND ASIDE HAMMER ENDS-WITH ASIDE HAMMER CONDITIONS-NAILS IN APRON POCKET <table><tr><td colspan="2"></td><th colspan="2">SIZE OF NAIL</th></tr><tr><td colspan="2"></td><th>5-7-8</th><th>10-12-16</th></tr><tr><td colspan="2"></td><th>PENNY</th><th>PENNY</th></tr><tr><td colspan="2"></td><th>A</th><th>B</th></tr><tr><td>FIRST NAIL</td><td>A</td><td>422</td><td>529</td></tr><tr><td>EACH ADDITIONAL NAIL</td><td>B</td><td>182</td><td>285</td></tr></table>			SIZE OF NAIL				5-7-8	10-12-16			PENNY	PENNY			A	B	FIRST NAIL	A	422	529	EACH ADDITIONAL NAIL	B	182	285
		SIZE OF NAIL																												
		5-7-8	10-12-16																											
		PENNY	PENNY																											
		A	B																											
FIRST NAIL	A	422	529																											
EACH ADDITIONAL NAIL	B	182	285																											

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA OCCUP- QUALITY SOURCE DMNSTDP TMU
SOURCE ATION CODE ELEMENT VALUE

OPERATION/ELEMENT DESCRIPTION

FFF U MAA TNFPAXX TNFPAXX TABLE

PRESS (ARBOR), ACTUATE TO INSTALL OR REMOVE PIN OR CYLINDRICAL PART
STARTS-WITH PART ON ARBOR PRESS AND HAND ON HANDLE
INCLUDES-ALL MOTIONS NECESSARY TO LOWER RAM, POSITION PART UNDER RAM, PRESS PIN IN OR OUT, AND RAISE RAM
ENDS-WITH RAM RAISED, HAND ON HANDLE
CONDITIONS-ONE HAND OPERATION OF PRESS HANDLE;
EACH CASE CONTAINS APPROPRIATE CONSTANT VALUE FOR LOWERING AND RAISING RAM (SOURCE CODE, MNF=PA-C1 THRU MNF=PA-C7) AND WEIGHT FACTORS TO OVERCOME RESISTANCE TO HANDLE MOVEMENT; WEIGHT FACTORS FOR POSITIONING PART UNDER RAM NOT INCLUDED

DEPTH OF PRESS DIAMETER OF PIN (INCHES)
1/2-3/4 INCH

		1/8	1/4	3/8	1/2
DISTANCE PART MOVED TO ALIGN UNDER RAM		A	B	C	D
TO 1 INCH	A	135	144	144	149
1-3 INCHES	B	138	147	147	152
3-9 INCHES	C	143	152	152	157
9-15 INCHES	D	148	157	157	162
15-21 INCHES	E	153	162	162	167
21-27 INCHES	F	158	167	167	172
		5/8	3/4	7/8	1.0
		E	F	G	H
TO 1 INCH	A	149	149	158	—
1-3 INCHES	B	152	152	161	161
3-9 INCHES	C	157	157	166	166
9-15 INCHES	D	162	162	171	171
15-21 INCHES	E	167	167	176	176
21-27 INCHES	F	172	172	181	181

DEPTH OF PRESS DIAMETER OF PIN (INCHES)
3/4-1 1/4 INCHES

		1/8	1/4	3/8	1/2
DISTANCE PART MOVED TO ALIGN UNDER RAM		A	B	C	D
TO 1 INCH	G	152	162	164	164
1-3 INCHES	H	155	165	167	167
3-9 INCHES	J	160	170	172	172
9-15 INCHES	K	165	175	177	177
15-21 INCHES	L	170	180	182	182
21-17 INCHES	M	175	185	187	187
		5/8	3/4	7/8	1.0
		E	F	G	H
TO 1 INCH	G	258	258	263	—
1-3 INCHES	H	261	261	266	266
3-9 INCHES	J	266	266	271	271
9-15 INCHES	K	271	271	276	276
15-21 INCHES	L	276	276	281	281
21-27 INCHES	M	281	281	286	286

DEPTH OF PRESS DIAMETER OF PIN (INCHES)

		1/8	1/4	3/8	1/2
DISTANCE PART MOVED TO ALIGN UNDER RAM		A	B	C	D
TO 1 INCH	N	329	357	367	448
1-3 INCHES	P	332	360	370	451
3-9 INCHES	R	337	365	375	456
9-15 INCHES	S	342	370	380	461
15-21 INCHES	T	347	375	385	466
21-27 INCHES	U	352	380	390	471
		5/8	3/4	7/8	1.0

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA OCCUP- QUALITY SOURCE OWNSTDP TMU
SOURCE ATION CODE ELEMENT VALUE

OPERATION/ELEMENT DESCRIPTION

FFF U MAA TNFPAXX TNFPAXX

		E	F	G	H
TO 1 INCH	N	453	453	453	—
1-3 INCHES	P	456	456	456	471
3-9 INCHES	R	461	461	461	476
9-15 INCHES	S	466	466	466	481
15-21 INCHES	T	471	471	471	486
21-27 INCHES	U	476	476	476	491

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	OWNSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION																																																																																																																													
FFF	U	NAA	TNFSAXX	TNFWIXX	TABLE	WIRE(SAFETY),INSTALL,TWO-STRAND TWISTED BETWEEN UNOBSTRUCTED ANCHORS,WIRE TO .0625 INCH DIAMETER STARTS-WITH REACH TO SAFETY WIRE,PLIERS IN HAND INCLUDES-ALL MOTIONS NECESSARY TO GET SAFETY WIRE FROM ROLL,THREAD THROUGH FIRST ANCHOR POINT,TWIST BETWEEN ANCHOR POINTS,THREAD THROUGH SUBSEQUENT ANCHOR POINTS AND TWIST,CUT OFF EXCESS WIRE AND BEND END AFTER FINAL TWIST ENDS-WITH PLIERS IN HAND CONDITIONS-APPLIES TO SAFETY WIRE INSTALLATION WITH SAFETY WIRE PLIERS(WIRE TWISTERS).TABLE VALUES NOT APPLICABLE TO SPECIFIC SAFETY WIRE TECHNIQUES,E.G.,TURNBUCKLE. TOTAL ANCHOR DISTANCE BETWEEN ANCHORS(INCHES) ANCHOR 0.5-1.5 1.5-2.5 2.5-3.5 STATIONS																																																																																																																													
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DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

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MAA	U	MAA	SPLTUX	SNFTCXX	VARIABLE	TAPE(PLASTIC), CUT PIECE FROM ROLL STARTS-WITH REACH TO GET ROLL OF TAPE INCLUDES-ALL THE MOTIONS NECESSARY TO GET ROLL OF TAPE AND PULL OFF LENGTH, GET SCISSORS AND CUT TAPE, ASIDE ROLL AND SCISSORS, PICK UP PIECE OF TAPE ENDS-WITH PICK UP PIECE OF TAPE CASE 01 UNROLL 12 INCHES AND CUT 02 UNROLL EACH ADDITIONAL 12 INCHES(ADD TO CASE 01)
					192 42	
MAA	U	MAA	ONFSCXX	SNFWIXX	VARIABLE	WIRE(SAFETY-CONTINUOUS), INSTALL STARTS-WITH REACH TO GET WIRE INCLUDES-ALL THE MOTIONS NECESSARY TO GET WIRE AND DIAGONAL PLIERS, ROLL OFF LENGTH OF WIRE, CUT WIRE, ASIDE DIAGONAL PLIERS, FEED END OF WIRE IN FIRST ANCHOR POINT, PULL THROUGH WITH DUCKBILL PLIERS, PULL AND TIGHTEN WIRE AROUND HEAD, INSERT WIRE IN SECOND ANCHOR POINT, PULL THROUGH WITH DUCKBILL PLIERS AND HOLD, GET OTHER END OF WIRE AND PULL AROUND HEAD BY HAND, PRE-TWIST PIGTAIL, RELEASE WIRE HELD BY DUCKBILL PLIERS, GRASP AND PRE-TWIST PIGTAIL WITH DUCKBILL PLIERS AND TWIST, ASIDE DUCKBILL PLIERS, GET DIAGONAL PLIERS AND CUT PIGTAIL, ASIDE DIAGONAL PLIERS, GET NEEDLE NOSE PLIERS, GRASP AND TUCK PIGTAIL, RELEASE PIGTAIL AND ASIDE NEEDLE NOSE PLIERS ENDS-WITH ASIDE NEEDLE NOSE PLIERS CASE 01 SAFETY WIRE TWO BOLT HEADS, THREE INCHES APART, WIRE NOT TWISTED BETWEEN BOLTS 02 SAFETY WIRE ADDITIONAL BOLT HEAD, WIRE NOT TWISTED BETWEEN BOLTS
					648 77	
ONA	U	MAA	ONFSCXX	SNFWRX	VARIABLE	WIRE(SAFETY-CONTINUOUS), REMOVE STARTS-WITH REACH TO GET DIAGONAL PLIERS INCLUDES-ALL THE MOTIONS NECESSARY TO GET DIAGONAL PLIERS AND CUT PIGTAIL, HOLD PIGTAIL WITH DIAGONAL PLIERS AND TWIST WIRE FROM HOLES, PULL WIRE FROM HOLES WITH DIAGONAL PLIERS, ASIDE WIRE AND DIAGONAL PLIERS ENDS-WITH WIRE AND DIAGONAL PLIERS ASIDE CASE 01 REMOVE SAFETY WIRE FROM TWO BOLTS THREE INCHES APART, WIRE NOT TWISTED BETWEEN BOLTS 02 REMOVE SAFETY WIRE FROM ADDITIONAL BOLT HEAD, WIRE NOT TWISTED BETWEEN BOLTS
					245 65	
FFE	U	TAA	GJPHMXX	TOGNMXX	TABLE	NUMBERS, MULTIPLY(READ, TRANSPOSE) STARTS-WITH REACH TO GET PENCIL FROM POCKET INCLUDES-ALL THE MOTIONS NECESSARY TO GET PENCIL FROM POCKET, READ NUMBER(S) TO TRANSPOSE, WRITE NUMBER(S), DRAW UNDERLINE, MULTIPLY DIGITS MANUALLY AND WRITE, RETURN PENCIL TO POCKET ENDS-WITH MULTIPLICATION COMPLETE, PENCIL BACK IN POCKET

NUMBER OF DIGITS TO BE MULTIPLIED		BY NUMBER OF DIGITS		
		A	B	C
		1	2	3
1	A	280		
2	B	338	534	
3	C	421	812	997
4	D	484	965	1346
5	E	560	1195	1567

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

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FFE	U	MAA	GNDCDC14	SOGDU01	492	<p>DRAWER(FILING CABINET),UNLOCK,OPEN,CLOSE,AND LOCK</p> <p>STARTS-WITH REACH TO COMBINATION LOCK</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO OPEN COMBINATION LOCK,OPEN DRAWER(NU THUMB LATCH); CLOSE DRAWER,AND CLOSE AND SECURE LOCK</p> <p>ENDS-WITH RELEASE OF LOCK</p> <p>CONDITIONS-COMBINATION LOCK IS MOUNTED IN DRAWER,NO TIME INCLUDED FOR REPOSITIONING BODY AT CABINET OR FOR REMOVING OR PLACING OBJECTS IN DRAWER</p>
FFE	U	MAA	GNDCDC15	SOGDU02	719	<p>DRAWER(FILING CABINET),UNLOCK,OPEN,CLOSE,AND LOCK</p> <p>STARTS-WITH REACH TO COMBINATION PADLOCK</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO OPEN AND ASIDE COMBINATION PADLOCK,REMOVE RETAINER BAR, OPEN DRAWER(NU THUMB LATCH);CLOSE DRAWER REPLACE BAR,INSTALL LOCK,AND CLOSE LOCK</p> <p>ENDS-WITH RELEASE OF LOCK</p> <p>CONDITIONS-NO TIME INCLUDED FOR REPOSITIONING BODY AT CABINET OR FOR REMOVING OR INSERTING OBJECTS IN DRAWER</p>
FFD	U	MAA	BOHCDC01	BOHCDC01	35	<p>CONTAINER,DUMP PARTS</p> <p>STARTS-WITH CONTAINER IN HANDS UNDER CONTROL</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO INVERT CONTAINER,DUMP PARTS,AND RETURN CONTAINER TO ORIGINAL POSITION</p> <p>ENDS-WITH EMPTY CONTAINER IN HANDS</p> <p>CONOTITION-APPLICABLE TO TRAYS,TOTE PANS,ETC.OF PARTS WEIGHING TO 12.5 POUNDS</p>
ND	U	MAO	LOPC-18	BOHNP01	56	<p>HOOK,PLACE IN PART,S-TYPE HOOK</p> <p>STARTS-WITH HOOK IN HAND</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE HOOK TO HOLE IN PART,POSITION HOOK TO HOLE, SWING HOOK TO ENGAGE AND SEAT HOOK</p> <p>ENDS-WITH HOOK SEATED IN HOLE IN PART,HAND ON HOOK</p>
FFD	U	MAA	BOHMA01	BOHOG01	38	<p>OBJECT,GAIN CONTROL AFTER GET HANDFUL OF OBJECTS</p> <p>STARTS-WITH REGRASP OF HANDFUL OF OBJECTS</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO GET OBJECT WITH FINGERS OF SAME HAND AND ALIGN READY FOR NEXT OPERATION</p> <p>ENDS-WITH OBJECT READY TO MOVE TO NEXT OPERATION</p> <p>CONDITION-USE FOR HANDFULL OF OBJECTS,TO PREPARE ONE OBJECT FOR NEXT OPERATION,SUCH AS GET BOLT ALIGNED TO INSTALL FROM HANDFUL OF BOLTS IN SAME HAND</p>
DND	U	MAO	LOPC-1C	BOHPHX	VARIABLE	<p>PART,HANG WITH "S" HOOK</p> <p>STARTS-WITH PART IN HAND</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO HANG A PART(ON "S" HOOK)ON TO EDGE OF TANK</p> <p>ENDS-WITH PART HANGING</p> <p>CONDITIONS-PART AND HANGER WEIGH TO 10 POUNDS-HANG PART ON BAR OR RIM(EDGE)SUCH AS VAT OR TANK</p> <p>40 CASE 01 HANG WITH 16-INCH MOVE</p> <p>55 02 HANG WITH 30-INCH MOVE</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	U	MAA	BOHSPXX	BOHPSXX	VARIABLE	PARTS, SEPARATE BY PULLING STARTS-WITH HAND ON OBJECT INCLUDES-ALL MOTIONS NECESSARY TO SEPARATE A SINGLE OBJECT FROM PILE OF OBJECTS ENDS-WITH OBJECT IN HAND FREE OF PILE CONDITION-DOES NOT INCLUDE UNTANGLING MOTIONS CASE 01 SEPARATE BY PULLING STRAIGHT OUT ON OBJECT, TO 2.5 POUNDS RESISTANCE CASE 02 SEPARATE BY PULLING STRAIGHT OUT ON OBJECT, 2.5-12.5 POUNDS RESISTANCE CASE 03 SEPARATE BY PULL WITH TWIST, 2.5-12.5 POUNDS RESISTANCE
					12	
					25	
					29	
FFE	U	MAA	RLG0B01	MOHBO01	97	BOOK, OPEN TO MARKED PAGE STARTS-WITH BOOK ON TABLE, HANDS AT BOOK INCLUDES-ALL THE MOTIONS NECESSARY TO REACH TO FLAG AND GRASP PAGES, OPEN BOOK AT FLAG, REACH TO AND HOLD CENTER OF PAGES TO KEEP BOOK OPEN ENDS-WITH BOOK OPEN AT MARKED PAGE CONDITIONS-PAGE MARKED WITH PAPER CARD
FFE	U	MAA	GJPJ0G5	MOHBR01	203	BOOK, REMOVE FROM AND REPLACE IN OPEN BOOKCASE STARTS-WITH REACH TO BOOK INCLUDES-ALL MOTIONS NECESSARY TO GET BOOK, TILT, AND SLIDE BOOK FROM BOOKCASE, ASIDE BOOK; GET BOOK, GET BOOKS IN CASE AND MOVE ASIDE TO MAKE OPENING, PLACE BOOK IN BOOKCASE, AND ALIGN BOOK ENDS-WITH RELEASE OF BOOK
NO	U	MAO	LDPC1E1	MOHCD01	129	CONTAINER, DUMP PARTS STARTS-WITH REACH TO CONTAINER WITH BOTH HANDS INCLUDES-ALL THE MOTIONS NECESSARY TO REACH AND GRASP CONTAINER, MOVE TO TURN UPSIDE DOWN AND SHAKE TO REMOVE PARTS, ASIDE EMPTY CONTAINER ENDS-WITH ASIDE CONTAINER CONDITIONS-CONTAINER AND PARTS WEIGH APPROXIMATELY 20 POUNDS. CONTAINER IS WIRE BASKET OR SIMILAR.
DL	U	MAI	ECOC	MOHCOXX	VARIABLE	CLIPBOARD, OBTAIN, AFFIX, OR REMOVE DOCUMENT AND ASIDE STARTS-WITH REACH TO OBTAIN THE CLIPBOARD INCLUDES-ALL THE TIME NECESSARY TO OBTAIN THE CLIPBOARD, AFFIX OR REMOVE THE DOCUMENT AND PLACE THE CLIPBOARD ASIDE ENDS-WITH RELEASE OF CLIPBOARD CASE 01 AFFIX DOCUMENT CASE 02 REMOVE DOCUMENT
					153	
					114	
FF	U	MAA	MOG0D01	MOHDO01	108	DOOR (PASSAGE), OPEN AND CLOSE WITH DOORKNOBS, PUSH OR PULL REQUIRED TO OPEN DOOR STARTS-WITH BODY AT DOOR & REACH TO KNOB INCLUDES-TWISTING KNOB, OPENING DOOR, WALKING THROUGH DOORWAY, & CLOSING DOOR ENDS-WITH DOOR CLOSED, KNOB RELEASED, & BODY READY TO TAKE STEP CONDITIONS-WALLS OR PARTITIONS MUST NOT INTERFERE WITH BODY MOTIONS
FF	U	MAA	MOG0D02	MOHDO02	68	DOOR (PASSAGE), OPEN AND CLOSE, WITH DOORKNOBS AND CLOSER MECHANISM. PUSH REQUIRED TO OPEN DOOR STARTS-WITH BODY AT DOOR AND REACH TO KNOB INCLUDES-PUSHING THE DOOR OPEN AND WALKING THROUGH DOORWAY ENDS-WHEN FOOT HAS CONTACTED THE GROUND AND RESUMED ITS PORTION OF THE BODY WEIGHT CONDITIONS-WALLS OR PARTITIONS MUST NOT INTERFERE WITH BODY MOTIONS

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

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PFH	U	NAA	MOG0003	MOH0003	90	DOOR(PASSAGE), OPEN AND CLOSE, WITH DOORKNOB, PULL TO OPEN, WITH AUTOMATIC CLOSER STARTS-WITH REACH TO DOORKNOB INCLUDES-ALL MOTIONS NECESSARY TO TURN KNOB, PULL DOOR OPEN, WALK THROUGH, AND RELEASE DOOR ENDS-WITH RELEASE OF DOOR CONDITION-WALLS OR PARTITIONS MUST NOT INTERFERE WITH BODY MOTIONS
FFE	U	NAA	GNCD001	NOH0004	75	DOOR(PASSAGE), OPEN AND CLOSE, NO LATCH, PUSH TO OPEN, WITH AUTOMATIC DOOR CLOSER STARTS-WITH REACH TO DOOR HANDLE, KNOB, OR BAR INCLUDES-ALL MOTIONS NECESSARY TO PUSH DOOR OPEN, WALK THROUGH, AND RELEASE DOOR ENDS-WITH RELEASE DOOR CONDITION-APPLICABLE TO DOORS 30-36 INCHES WIDE AND 72-84 INCHES HIGH
FFE	U	NAA	GNCD002	NOH0005	114	DOOR(PASSAGE), OPEN AND CLOSE, NO LATCH, PULL TO OPEN, WITH AUTOMATIC DOOR CLOSER STARTS-WITH REACH TO DOOR HANDLE, BAR, OR KNOB INCLUDES-ALL MOTIONS NECESSARY TO PULL DOOR OPEN, WALK THROUGH, AND RELEASE DOOR ENDS-WITH RELEASE OF DOOR CONDITION-APPLICABLE TO DOORS 30-36 INCHES WIDE AND 72-84 INCHES HIGH
FFE	U	NAA	GNCD003	NOH0006	91	DOOR(PASSAGE), OPEN AND CLOSE, QUICK RELEASE PUSH TO OPEN, WITH AUTOMATIC CLOSER STARTS-WITH REACH TO RELEASE BAR INCLUDES-ALL MOTIONS NECESSARY TO PRESS BAR TO RELEASE LATCH, PUSH DOOR OPEN, WALK THROUGH, AND RELEASE DOOR ENDS-WITH RELEASE OF DOOR CONDITION-APPLICABLE TO DOORS 30-36 INCHES WIDE AND 72-84 INCHES HIGH
FFE	U	NAA	GNCD004	NOH0007	127	DOOR(PASSAGE), OPEN AND CLOSE, QUICK RELEASE, PULL TO OPEN, WITH AUTOMATIC CLOSER STARTS-WITH REACH TO HANDLE, KNOB OR BAR INCLUDES-ALL MOTIONS NECESSARY TO RELEASE LATCH, PULL DOOR OPEN, WALK THROUGH AND RELEASE DOOR ENDS-WITH RELEASE OF DOOR CONDITION-APPLICABLE TO DOORS 30-36 INCHES WIDE AND 72-84 INCHES HIGH
FFE	U	NAA	GNCD005	NOH0008	75	DOOR(PASSAGE), OPEN AND CLOSE, TWO-WAY SWINGING STARTS-WITH REACH TO DOOR INCLUDES-ALL MOTIONS NECESSARY TO PUSH DOOR OPEN, WALK THROUGH DOOR, AND RELEASE DOOR ENDS-WITH RELEASE OF DOOR CONDITION-APPLICABLE TO DOORS 30-36 INCHES WIDE AND 72-84 INCHES HIGH
FF	U	NAA	GNCD006	NOH0009	111	DOOR(PASSAGE), OPEN, SLIDING STARTS-WITH REACH TO DOOR RECESS INCLUDES-ALL MOTIONS NECESSARY TO PUSH DOOR OPEN, WALK THROUGH, AND RELEASE DOOR ENDS-WITH RELEASE OF DOOR
FFE	U	NAA	GNCD007	NOH0010	138	DOOR(PASSAGE), CLOSE, SLIDING STARTS-WITH TURN TO DOOR RECESS INCLUDES-ALL MOTIONS NECESSARY TO GET DOOR, MOVE DOOR TO CLOSED POSITION, AND TURN TO WALK AWAY ENDS-WITH BODY TURNED AWAY FROM DOOR

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
DL	U	HAL	BHMD	MOHND01	463	DOOR(OVERHEAD), RAISE AND LOWER, MANUALLY STARTS-WITH REACH TO DOOR LATCH INCLUDES-ALL MOTIONS NECESSARY TO UNLATCH DOOR, RAISE DOOR, REACH TO PULL CHAIN ON ROPE, LOWER DOOR, AND LATCH DOOR ENDS-WITH RELEASE OF LATCH
NF	U	MAF	3802	MOHNDU01	143	DOOR(OFFICE), UNLOCK STARTS-WITH REACH TO POCKET FOR KEYS INCLUDES-ALL THE MOTIONS NECESSARY TO GET KEYS FROM POCKET, UNLOCK DOOR, AND TURN KNOB TO RE- LEASE LATCH ENDS-WITH KNOB AND KEYS IN HAND
FFD	U	MAA	KALEA16	MOHFI01	135	FUSE, INSTALL IN FUSE HOLDER/BLOCK STARTS-WITH REACH TO GET FUSE INCLUDES-ALL THE MOTIONS NECESSARY TO GET FUSE AND PLACE TO FUSE HOLDER, SEAT FUSE IN HOLDER AT BOTH ENDS ENDS-WITH RELEASE SEATED FUSE CONDITIONS-FUSE BLOCK OR FUSE HOLDER, SNAP IN TYPE
FFD	U	MAA	KALED16	MOHFR01	83	FUSE, REMOVE FROM HOLDER/BLOCK STARTS-WITH REACH TO FUSE IN HOLDER INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP, REMOVE FUSE FROM HOLDER AND ASIDE FUSE ENDS-WITH ASIDE FUSE CONDITIONS-FUSE BLOCK/HOLDER, SNAP IN TYPE
FFD	U	MAA	MMHOGXX	MOHGOXX VARIABLE		GATE(CONVEYOR), OPEN OR CLOSE, SINGLE GATE OR ONE SIDE OF DOUBLE GATE STARTS-WITH REACH TO GATE INCLUDES-ALL MOTIONS NECESSARY TO OPEN OR CLOSE CONVEYOR GATE ENDS-WITH GATE OPEN OR CLOSED CASE 01 OPEN CONVEYOR GATE 02 OPEN GATE HAVING SAFETY CHAIN 03 CLOSE CONVEYOR GATE
					66 168 63	
DL	U	HAL	BMAH	MOHHA01	197	HOOK, ATTACH AND DETACH TO/FROM ITEM STARTS-WITH REACH TO HOOK ON RACK INCLUDES-ALL MOTIONS NECESSARY TO GET HOOK, ATTACH TO ITEM, HANG ON RACK, REMOVE HOOK AND ITEM FROM RACK, REMOVE ITEM FROM HOOK, AND REPLACE HOOK ON RACK ENDS-WITH RELEASE OF HOOK
ND	U	MAO	LPDC-1V	MOHHR01	42	HOOK("S"), REMOVE FROM PART STARTS-WITH REACH TO HOOK INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP HOOK, MOVE HOOK TO BREAK CONTACT WITH PART, MOVE HOOK FROM PART ENDS-WITH HOOK IN HAND, CLEAR OF PART
FFE	U	MAA	GMCPLXX	MOHLRXX VARIABLE		LID, REMOVE AND REPLACE, TRASH CAN OR SIMILAR TO 24 INCHES DIAMETER STARTS-WITH REACH TO LID INCLUDES-ALL MOTIONS NECESSARY TO GET EDGE OF LID WITH BOTH HANDS, REMOVE LID FROM CONTAINER, AND ASIDE LID; AND GET LID, POSITION TO CONTAINER, AND PRESS LID DOWN WITH BOTH HANDS ENDS-WITH RELEASE OF LID CONDITIONS-LID NOT SECURED BY LOCKING DEVICE CASE 01 REMOVE LID ONLY 02 REPLACE LID ONLY 03 REMOVE AND REPLACE LID, LID PLACED ASIDE 04 REMOVE AND REPLACE LID, LID HELD IN HAND
					84 164 248 210	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
FF	U	MAA	MOHGOO1	MOHOG01	65	OBJECT,PENCIL,GET FROM SHIRT POCKET STARTS-WITH REACH TO PENCIL OR OTHER OBJECT IN BREAST POCKET OF SHIRT OR APRON INCLUDES-ALL NECESSARY MOTIONS TO GET OBJECT AND REGRASP ENDS-WITH OBJECT IN HAND AWAY FROM POCKET AND READY FOR USE
FF	U	MAA	MOHADO1	MOHOP01	73	OBJECT,PLACE IN SHIRT POCKET,SUCH AS PENCIL, SCRIBE,OR SCALE STARTS-WITH MOVE OF OBJECT TOWARD POCKET INCLUDES-ALL NECESSARY MOTIONS TO PUT AWAY PENCIL OR SIMILAR OBJECT AFTER USING ENDS-WITH OBJECT SEATED IN POCKET
NF	U	MAF	317	MOHOS01	590	OBJECT(HEAVY),SLIDE ON FLOOR STARTS-WITH TURN TO OBJECT INCLUDES-ALL MOTIONS NECESSARY TO REACH TO OBJECT,GRASP,AND PUSH TO MOVE FIVE FEET ENDS-WITH RELEASE OF OBJECT CONDITIONS-OBJECTS WITH RESISTANCE TO 70 POUNDS ENW HANDLED BY TWO PERSONS
DL	U	NAL	BNPS	MOHPOXX	VARIABLE	OBJECT,PICK UP AND SET DOWN STARTS-WITH A STOOP TO THE OBJECT TO BE MOVED INCLUDES-ALL THE MOTIONS NECESSARY TO GAIN CONTROL OF AN OBJECT AND ARISE;STOOP,PLACE OBJECT ON FLOOR,AND ARISE ENDS-WITH ARISE FROM STOOP CONDITION-APPLIES TO OBJECTS WHICH REQUIRE SPECIAL HANDLING,DUE MORE TO PHYSICAL SIZE THAN DENSITY 155 CASE 01 0-35 POUNDS 176 02 35-45 POUNDS 184 03 45-55 POUNDS 255 04 55-65 POUNDS 268 05 65-75 POUNDS
NF	U	MAF	3940	MOHPP01	180	PART,PICK UP AND SET DOWN STARTS-WITH STOOP TO PART INCLUDES-ALL MOTIONS NECESSARY TO STOOP, GRASP PART,ARISE,STOOP,RELEASE PART AND ARISE ENDS-WITH ARISE FROM STOOP CONDITION-APPLICABLE TO OBJECTS SUCH AS TOOLBOXES,POWER TOOLS, ETC WITH HANDLES WHICH CAN BE GRASPED WITH ONE HAND OR WITH TWO HANDS SIMULTANEOUSLY-WEIGHT NOT TO EXCEED 40 POUNDS
NO	U	MAO	LA1P1	MOHUP01	41	WIRE,PLACE THROUGH HOLE IN OBJECT STARTS-WITH WIRE AND OBJECT IN HAND INCLUDES-ALL MOTIONS NECESSARY TO POSITION END OF WIRE TO HOLE IN OBJECT AND THREAD WIRE THROUGH OBJECT ENDS-WITH WIRE AND OBJECT IN HAND CONDITIONS-APPLICABLE TO ATTACHING MARKER,TAG, OR SIMILAR TO WIRE

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTD ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	U	NAA	TOMRAXX	TOMORXX	TABLE	<p>OBJECT, REPOSITION AT WORKPLACE BY SLIDING OR LIFTING AND TURNING, OBJECT TO 50 POUNDS WEIGHT, TURN TO 180 DEGREES STARTS-WITH REACH TO OBJECT INCLUDES-ALL MOTIONS NECESSARY TO REPOSITION OBJECT ENDS-WITH RELEASE OF OBJECT</p> <p>DEGREES OBJECT TURNED TO 90 90-180</p> <p>WEIGHT OF OBJECT (POUNDS) TO 20 20-50 TO 20 20-50</p> <p>A 52 105 76 133</p> <p>LIFT ONE END OF OBJECT, TILT OVER, AND SLIDE TO POSITION ABOUT HORIZONTAL AXIS</p> <p>B 44 84 65 111</p> <p>ROLL OBJECT BY HAND ABOUT THE HORIZONTAL AXIS- NO LIFT OR TILT</p> <p>C 66 135 73 170</p> <p>LIFT CLEAR OF SURFACE, TURN OVER AND SLIDE TO POSITION ABOUT HORIZONTAL AXIS</p> <p>D 64 147 86 224</p> <p>LIFT CLEAR OF SURFACE, TURN OVER AND SLIDE TO POSITION ABOUT THE VERTICAL AXIS</p> <p>E 29 63 51 100</p> <p>TURN ABOUT THE VERTICAL AXIS- SLIDE TO POSITION- NO PICK UP OBJECT</p>
FFD	U	NAA	TOMRAXX	TOMOTXX	TABLE	<p>OBJECT, TURN ABOUT HORIZONTAL OR VERTICAL AXIS TO 180 DEGREES, OBJECT ATTACHED TO STAND OR FIXTURE, EFFECTIVE NET RESISTANCE (ENR) TO 50 POUNDS STARTS-WITH REACH TO THE OBJECT INCLUDES-ALL MOTIONS NECESSARY TO ROTATE AN OBJECT WHICH IS ATTACHED TO A STAND OR FIXTURE ENDS-WITH RELEASE OF OBJECT CONDITIONS-DOES NOT INCLUDE TIME TO LOOSEN OR TIGHTEN KNOBS OR OTHER HOLDING DEVICES</p> <p>DEGREES OBJECT TURNED TO 90 90-180</p> <p>ENR (POUNDS) RADIUS OF OBJECT TURNED (INCHES) TO 6 6-12 12-18 TO 6 6-12 12-18</p> <p>A 22 27 49 26 39 46</p> <p>TO 2.5 A 22 27 49 26 39 46</p> <p>2.5-10 B 25 30 42 29 42 49</p> <p>10-20 C 30 35 47 34 47 54</p> <p>20-30 D 50 55 67 54 57 74</p> <p>30-40 E 55 60 72 59 72 79</p> <p>40-50 F 60 65 77 64 77 84</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFE	U	MAA	ITEECGC	SONBOXX	VARIABLE	<p>BOOK, OBTAIN FROM OPEN SHELF AND RETURN STARTS-WITH READ IDENTIFICATION OF BOOKS ON SHELF INCLUDES-ALL MOTIONS NECESSARY TO LOCATE BOOK, REMOVE FROM SHELF, GET MARKER PAD, WRITE BOOK NUMBER (THREE DIGITS) ON MARKER, INSERT MARKER PAD IN BOOK SLOT ON SHELF, PLACE BOOK TO CARRY, PLACE BOOK ON TABLE OR WORK BENCH, GET BOOK FROM TABLE TO RETURN TO SHELF, REMOVE MARKER PAD, RETURN BOOK TO SHELF, AND TEAR SHEET FROM MARKER PAD ENDS-WITH ASIDE MARKER PAD CONDITIONS-TIME TO WALK BETWEEN BOOK SHELF AND WORK AREA NOT INCLUDED 844 CASE 01 OBTAIN AND RETURN BOOK WITHOUT BEND OR STOOP 966 02 OBTAIN AND RETURN BOOK, BEND OR STOOP AT BOOK SHELF REQUIRED</p>
FFE	U	MAA	IAESPO1	SONOHXX	VARIABLE	<p>OBJECT, HANG ON HOOK STARTS-WITH BEND TO HOOKS IN STORAGE INCLUDES-ALL THE MOTIONS NECESSARY TO BEND AND GET HOOKS (FOUR), ARISE FROM BEND, TURN, PLACE HOOKS ON CART OR BENCH, GET HOOK AND PART (OBJECT), POSITION OBJECT TO HOOK, PLACE OBJECT ON HOOK, MOVE HOOK TO CHAIN, GET RING ON CONVEYOR, PLACE HOOK ON RING, RELEASE ENDS-WITH HOOK ON RING CONDITIONS-BASED ON GETTING FOUR HOOKS FROM STORAGE PER BEND 414 CASE 01 PLACE FIRST OBJECT ON HOOK 165 02 PLACE EACH ADDITIONAL OBJECT ON HOOK</p>
DL	U	MAL	BNHS	SONPHXX	VARIABLE	<p>PLYWOOD, MANHANDLE STARTS-WITH WALK 2 PAGES TO PLYWOOD STACK INCLUDES-MOVEMENT OF SHEET(S) OF PLYWOOD AS FOLLOWS-FIRST WORKER SLIDES THE SHEET(S) TOWARD THE SECOND WORKER, THE SECOND WORKER GRASPS THE SHEET(S) AND BOTH WORKERS MOVE WITH THE SHEET(S) TO THE FORK BLADES, HAND CART OR OTHER STACK, BOTH WORKERS RELEASE THE SHEET(S) ON THE FORK BLADES, HAND CART OR OTHER STACK AND ALIGN IT WITH PREVIOUSLY PLACED SHEETS ENDS-WITH TURN FROM STACK CONDITION-VALUES SHOWN APPLY TO EACH MOVEMENT OF SHEET(S) TO FORK BLADES, CART, OR STACK 580 CASE 01 SHEET(S), 4X6 FEET 589 02 SHEET(S), 4X8 FEET 616 03 SHEET(S), 4X10 FEET 634 04 SHEET(S), 4X12 FEET</p>
FFE	U	MAA	GECPO1	SONPRO1	123	<p>PART, REMOVE WITH PRY TOOL STARTS-WITH REACH TO TOOL INCLUDES-ALL MOTIONS NECESSARY TO GET TOOL, POSITION UNDER PART, APPLY PRESSURE TO TOOL, GET PART, AND ASIDE PART ENDS-WITH ASIDE TOOL CONDITIONS-PART IS MINIMALLY ENGAGED</p>
NO	U	MAO	LAIR	BPAPA01	63	<p>PAINT (GREASE OR VARNISH), APPLY WITH BRUSH STARTS-WITH LOADED BRUSH IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE BRUSH TO PART, COAT PART (THREE STROKES WITH CARE AND SIX FRACTIONAL MOVES TO RETOUCH) ENDS-WITH COATING COMPLETE CONDITIONS-ONE-INCH STROKES WITH BRUSH USED</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFE	U	NAA	GSCPSA1	BPAPSXX	VARIABLE	PAINT, SPRAY STARTS-WITH DEPRESS TRIGGER INCLUDES-ALL THE MOTIONS NECESSARY TO MUVE A SPRAY GUN ACROSS SURFACE TO SPRAY ONE SQUARE FOOT ENDS-WITH RELEASE OF TRIGGER CONDITIONS-PAINT ONE SQUARE FOOT W/SPRAY GUN CASE 01 FLAT SURFACE 02 IRREGULAR SURFACE
					81 160	
NAA	U	NAA	JPAADSF	MPAPSXX	VARIABLE	PAINT, SPRAY STARTS-WITH SPRAY GUN IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO AIM SPRAY GUN, DEPRESS TRIGGER, DIRECT SPRAY OVER AREA, GET HOSE AND FLIP ASIDE, MOVE TO NEW AREA ENDS-WITH SPRAY GUN IN HAND CASE 01 PAINT 10 SQUARE FEET WITH EPOXY PAINT OR ACRYLIC LACQUER, FOUR PASSES PER SQUARE FOOT, SPRAY WITH FOUR-INCH FAN 02 PAINT 10 SQUARE FEET WITH EPOXY OR ACRYLIC PRIMER, THREE PASSES PER SQUARE FOOT, SPRAY WITH SIX-INCH FAN 03 PAINT 10 LINEAR FEET, CUT IN WATER LINE, FOUR PASSES PER LINEAR FOOT, SPRAY WITH 1 1/2-INCH FAN
					998 593 978	
FFH	U	NAA	KPAB8AA	SPAAPXX	VARIABLE	PAINT, APPLY WITH BRUSH ATTACHED TO BOTTLE CAP STARTS-WITH REACH TO GET BOTTLE INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP AND HOLD BOTTLE WITH ONE HAND, REACH TO AND UN- SCREW CAP FROM BOTTLE WITH OTHER HAND, REMOVE BRUSH AND WIPE ON EDGE OF BOTTLE, MOVE BRUSH TO SPOT AND APPLY PAINT, RETURN BRUSH TO BOTTLE AND SCREW ON CAP, ASIDE BOTTLE ENDS-WITH ASIDE BOTTLE CASE 01 FIRST APPLICATION 02 DIP BRUSH IN PAINT AND PAINT ADDITIONAL SPOT
					235 80	
FFE	U	NAA	RLGSCP4	SPAPAXX	VARIABLE	PAINT, APPLY WITH BRUSH STARTS-WITH REACH TO GET PAINT BRUSH INCLUDES-ALL THE MOTIONS NECESSARY TO GET PAINT BRUSH AND DIP INTO PAINT, MOVE BRUSH FROM PAINT TO SURFACE TO BE PAINTED, BRUSH PAINT ON SURFACE WITH APPROXIMATELY EIGHT STROKES, ASIDE BRUSH ENDS-WITH ASIDE BRUSH CONDITIONS-PAINT ONE SQUARE FOOT OF SURFACE WITH 1 1/2 TO 2 1/2 INCH BRUSH, DIP BRUSH IN PAINT THREE TIMES PER SQUARE FOOT. CASE 01 FIRST SQUARE FOOT 02 EACH ADDITIONAL SQUARE FOOT
					387 349	
FFE	U	NAA	GJPPA9	NPHDA01	212	DOCUMENT, ATTACH TO ITEM WITH RUBBER BAND STARTS-WITH REACH TO PAPER DOCUMENT INCLUDES-ALL MOTIONS NECESSARY TO GET PAPER, POSITION TO SURFACE, ROLL PAPER, GET RUBBER BAND, POSITION PAPER AND BAND TO ITEM, AND STRETCH RUBBER BAND OVER PAPER AND ITEM ENDS-WITH RELEASE OF RUBBER BAND
FFE	U	NAA	GJPPB1	NPHDD01	139	DOCUMENT, DETACH FROM ITEM AND UNROLL, DOCUMENT SECURED WITH RUBBER BAND STARTS-WITH SIND REACH TO DOCUMENT AND RUBBER BAND INCLUDES-ALL MOTIONS NECESSARY TO RELEASE DOCUMENT FROM ITEM BY REMOVING RUBBER BAND, PLACE DOCUMENT ON SURFACE, AND UNROLL AND HOLD DOCUMENT WITH HANDS ENDS-WITH HANDS ON DOCUMENT

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DMNSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
FFE	U	MAA	GJPFPA7	MPHDR01	275	DOCUMENT, REMOVE FROM BAG, UNFOLD, FOLD, AND REPLACE IN BAG STARTS-WITH REACH TO BAG(PLASTIC OR SIMILAR) INCLUDES-ALL MOTIONS NECESSARY TO GET BAG, REMOVE PAPER CLIP FROM BAG, REMOVE DOCUMENT FROM BAG, AND UNFOLD DOCUMENT; AND REGRAASP DOCUMENT, FOLD DOCUMENT(ONE FOLD), PLACE DOCUMENT IN BAG, AND INSTALL PAPER CLIP ON BAG ENDS-WITH BAG IN HAND CONDITIONS-DOCUMENT IN BAG IS EASILY GRASPED, NO INSERTION OF FINGERS IN BAG REQUIRED TO REMOVE DOCUMENT
FFE	U	MAA	GJPFPA6	MPHDR02	128	DOCUMENT, REMOVE FROM AND RETURN TO PLASTIC BAG STARTS-WITH REACH TO PLASTIC BAG INCLUDES-ALL MOTIONS NECESSARY TO GET BAG, REMOVE DOCUMENT, ASIDE BAG AND DOCUMENT; GET BAG, GET DOCUMENT, PLACE IN BAG, AND FOLD CORNER OF BAG ENDS-WITH BAG IN HAND CONDITIONS-DOCUMENT IN BAG IS EASILY GRASPED, NO INSERTION OF FINGERS IN BAG REQUIRED; NO TIME IS INCLUDED FOR FOLDING OR OTHERWISE PREPARING DOCUMENT FOR REPLACING IN BAG.
FFD	U	MAA	BPK0801	BPK8001	25	BAG(PAPER), OPEN, PREPARATORY TO PLACE OBJECT IN BAG STARTS-WITH BAG IN ONE HAND AND FINGER OF OTHER HAND POSITIONED TO OPEN BAG INCLUDES-ALL MOTIONS NECESSARY TO INSERT FINGERS AND SPREAD OPEN ENDS-WITH BAG OPEN AND HELD IN BOTH HANDS CONDITION-APPLIES TO FLAT PAPER BAG
FFD	U	MAA	BPKCP01	BPKCCXX	VARIABLE	CONTAINER(PLASTIC), CLOSE, SNAP-ON LID STARTS-WITH ONE HAND ON CONTAINER AND LID IN OTHER HAND INCLUDES-ALL MOTIONS NECESSARY TO CLOSE CONTAINER WITH SNAP-ON LID TO 7-INCH DIAMETER ENDS-WITH ONE HAND ON CONTAINER AND ONE HAND ON LID CASE 01 LID, 1-4 INCHES DIAMETER 02 LID, 4-7 INCHES DIAMETER
FFD	U	MAA	BPKDCXX	BPKCOXX	VARIABLE	CAN, OPEN WITH STATIONARY CRANK TYPE CAN OPENER STARTS-WITH LEFT HAND ON CAN AND RIGHT HAND ON OPENER CUTTER HANDLE INCLUDES-ALL MOTIONS NECESSARY TO RAISE CUTTER, SLIDE CAN UNDER CUTTER, LOWER AND LOCK CUTTER, TURN CRANK TO OPEN CAN AND RAISE CUTTER TO RELEASE CAN ENDS-WITH LEFT HAND ON CAN AND RIGHT HAND ON OPENER CUTTER HANDLE CASE 01 OPEN CAN, 3-5 INCHES DIAMETER 02 OPEN CAN, 5-7 INCHES DIAMETER
FFD	U	MAA	BPKOP01	BPKCRO1	39	COVER, REMOVE FROM PLASTIC CONTAINER, SNAP ON COVER, 1-7 INCHES DIAMETER STARTS-WITH ONE HAND ON CONTAINER AND OTHER HAND ON LID INCLUDES-ALL MOTIONS NECESSARY TO APPLY PRESSURE AND DISENGAGE COVER ENDS-WITH ONE HAND ON CONTAINER AND COVER IN OTHER HAND

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTIP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	U	MAA	BPKOEXX	BPKOEXX	VARIABLE	<p>ENVELOPE, OPEN BY TEARING END STARTS-WITH ENVELOPE IN HANDS AND IN POSITION TO TEAR INCLUDES ALL MOTIONS NECESSARY TO TEAR ENVELOPE OPEN ENDS-WITH ENVELOPE IN ONE HAND AND TORN OFF END IN OTHER HAND CONDITION-LIMITED TO PARTS ENVELOPES MADE OF PAPER OR SIMILAR MATERIAL WITH NORMAL TEAR RESISTANCE</p> <p>24 CASE 01 ENVELOPE, 1-5 INCHES WIDE 28 02 ENVELOPE, 5-9 INCHES WIDE</p>
FFD	U	MAA	BPKJCOI	BPKJCOI	62	<p>JAR, CLOSE, SCREW TYPE LID STARTS-WITH JAR IN ONE HAND AND THE LID IN THE OTHER HAND POSITIONED, READY TO START INCLUDES-ALL MOTIONS NECESSARY TO SCREW LID ON JAR ENDS-WITH ONE HAND ON JAR AND ONE HAND ON LID CONDITION-LIMITED TO JARS WITH SCREW TYPE LID THAT CAN BE CLOSED WITH ONE HAND WHILE HOLDING JAR WITH OTHER HAND</p>
FF	U	MAA	BPKJOOI	BPKJOOI	66	<p>JAR, OPEN, SCREW TYPE LID STARTS-WITH ONE HAND ON JAR AND OTHER HAND ON LID INCLUDES-ALL MOTIONS NECESSARY TO UNSCREW LID BY HAND ENDS-WITH LID UNSCREWED, STILL IN HAND, AND OTHER HAND ON JAR CONDITION-LIMITED TO JARS WITH SCREW TYPE LID THAT CAN BE OPENED WITH ONE HAND WHILE HOLDING JAR WITH OTHER HAND</p>
FFD	U	MAA	BPKCTXX	BPKCTXX	VARIABLE	<p>TAPL, CUT WITH KNIFE TO OPEN PACKAGE, BOX, ETC. STARTS-WITH KNIFE IN HAND NEAR STARTING POINT AND OTHER HAND ON PACKAGE INCLUDES-ALL MOTIONS NECESSARY TO INSERT KNIFE AND MAKE ONE CUT ENDS-WITH KNIFE IN ONE HAND AND OTHER HAND ON PACKAGE</p> <p>52 CASE 01 CUT TO 6 INCHES IN LENGTH 58 02 CUT 6-12 INCHES IN LENGTH 62 03 CUT 12-18 INCHES IN LENGTH 66 04 CUT 18-24 INCHES IN LENGTH 69 05 CUT 24-30 INCHES IN LENGTH 73 06 CUT 30-36 INCHES IN LENGTH</p>
FFD	U	MAA	MPKOBXX	MPKOBXX	VARIABLE	<p>BOX, OPEN STARTS-WITH REACH TO BOX INCLUDES-ALL MOTIONS NECESSARY TO GET BOX IN POSITION AND OPEN FLAPS ENDS-WITH HANDS ON FLAPS</p> <p>100 CASE 01 FLAP TYPE BOX, NOT SEALED, NOT INTERLOCKED, LARGEST DIMENSION OF BOX TOP UP TO 6 INCHES 112 02 FLAP TYPE BOX, NOT SEALED, NOT INTERLOCKED, LARGEST DIMENSION OF BOX TOP 6-12 INCHES 97 03 BOX, TUCK IN TYPE LID, HINGED ACTION ON ONE SIDE, NOT SEALED, BOX UP TO 6 INCHES WIDE AND 12 INCHES LONG 192 04 BOX, SEALED WITH TAPE, TUCK IN TYPE LID, HINGED ACTION ON ONE SIDE, NO TAPE ON ENDS, MAXIMUM DIMENSIONS-6X12 INCHES (INCLUDES TIME FOR CUTTING TAPE WITH KNIFE)</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWSTDP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	U	NAA	MPKTBXX	MPKBTXX	VARIABLE	BAG(PAPER), TEAR TO OPEN STARTS-WITH REACH TO BAG INCLUDES-ALL MOTIONS NECESSARY TO GET BAG AND TEAR ACROSS TOP ENDS-WITH BAG IN HAND CASE 01 TEAR BAG, UP TO 6 INCHES ACROSS TOP 02 TEAR BAG, 6-12 INCHES ACROSS TOP 03 TEAR BAG, 12-18 INCHES ACROSS TOP 04 TEAR BAG, 18-24 INCHES ACROSS TOP
					86	
					90	
					94	
					98	
NAA	U	NAA	OPKCHXX	MPKCCXX	VARIABLE	CAN(HERMETICALLY SEALED), CLOSE OR OPEN STARTS-WITH REACH TO CAN INCLUDES-ALL THE MOTIONS NECESSARY TO REMOVE WINDING KEY FROM CAN, UNWIND STRIP WITH KEY, ASIDE STRIP AND LID; OR REPLACE LID ON CAN AND SEAL WITH HAND PRESSURE ENDS-WITH LID IN PLACE CONDITION-HERMETICALLY SEALED, KEY WIND CAN TO TWO POUNDS CAPACITY CASE 01 OPEN CAN WITH KEY 02 CLOSE CAN
					917	
					205	
FFD	U	NAA	MPKOCXX	MPKCOXX	VARIABLE	CAN(METAL), OPEN WITH STATIONARY CRANK TYPE CAN OPENER, EMPTY CONTENTS, AND ASIDE CAN STARTS-WITH REACH TO CAN INCLUDES-ALL MOTIONS NECESSARY TO GET CAN, OPEN WITH CRANK TYPE OPENER, EMPTY CAN AND PLACE CAN ASIDE ENDS-WITH RELEASE OF CAN CONDITION-EACH CASE INCLUDES A CONSTANT VALUE OF 182 TNU FOR OPENING CAN WITH CAN OPENER (SOURCE CODE MPK-OC-C1), CAN DIAMETER 3-5 INCHES CASE 01 OPEN AND EMPTY-ASIDE CAN 3-9 INCHES 02 OPEN AND EMPTY-ASIDE CAN 9-15 INCHES 03 OPEN AND EMPTY-ASIDE CAN 15-21 INCHES
					242	
					258	
					276	
NAA	U	NAA	OPKCSXX	MPKCSXX	VARIABLE	CAN, SCREW CAP ON AND OFF STARTS-WITH REACH TO CAN INCLUDES-ALL THE MOTIONS NECESSARY TO UNSCREW CAP BY HAND, SELECT TOOL TO REMOVE METAL SEAL WHEN REQUIRED AND PIERCE AND REMOVE SEAL, RE- PLACE CAP, TIGHTEN WITH HAND PRESSURE ENDS-WITH CAP IN PLACE CASE 01 WITHOUT SEAL TO ONE GALLON CAPACITY 02 WITH METAL SEAL TO ONE GALLON CAPACITY 03 WITHOUT SEAL TO FIVE GALLON CAPACITY 04 WITH METAL SEAL OVER ONE GALLON TO FIVE GALLON CAPACITY
					211	
					378	
					290	
					457	
ND	U	NAD	LTUHF1	MPKDOO1	170	DRUM(STORAGE), OPEN STARTS-WITH REACH TO LID WITH BOTH HANDS INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP LID WITH BOTH HANDS, ROCK LID TO LOOSEN, DIS- ENGAGE LID FROM DRUM, PLACE LID ASIDE, RELEASE ENDS-WITH LID ASIDE
NAA	U	NAA	OPKEOXX	MPKEOXX	VARIABLE	ENVELOPE(PARTS), OPEN AND REMOVE CONTENTS STARTS-WITH REACH TO ENVELOPE INCLUDES-ALL THE MOTIONS NECESSARY TO READ NOMENCLATURE TO VERIFY CONTENTS, TEAR ENVELOPE WITH CARE AND EXTRACT A SINGLE OBJECT ALSO INCLUDES MOTIONS TO EXTRACT EACH ADDITIONAL OBJECT ENDS-WITH LAY ASIDE OBJECT CASE 01 FIRST OBJECT 02 EACH ADDITIONAL OBJECT
					266	
					68	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	U	MAA	MPKJCXX	MPKJC01	109	JAR,CLOSE,LID SCREWED ON HAND TIGHT STARTS-WITH REACH TO LID INCLUDES-ALL MOTIONS NECESSARY TO GET LID, TIGHTEN ON JAR HAND TIGHT,AND PLACE JAR ASIDE ENDS-WITH RELEASE OF JAR CONDITION-LIMITED TO JARS WITH SCREW TYPE LIDS THAT CAN BE CLOSED WITH ONE HAND WHILE HOLDING JAR WITH OTHER HAND
FFD	U	MAA	MPKJOXX	MPKJO01	113	JAR,OPEN,SCREW TYPE LID STARTS-WITH REACH TO JAR INCLUDES-ALL MOTIONS NECESSARY TO GET JAR; UNSCREW,REMOVE,AND PLACE LID ASIDE ENDS-WITH RELEASE OF LID CONDITION-LIMITED TO JARS WITH SCREW TYPE LIDS THAT CAN BE REMOVED WITH ONE HAND WHILE HOLDING JAR WITH OTHER HAND
FFD	U	MAA	MPKCL01	MPKLC01	306	LID,CLOSE,PRY OPEN TYPE CAN TO 6 INCHES DIAMETER STARTS-WITH REACH TO LID INCLUDES-ALL MOTIONS NECESSARY TO GET LID, PLACE ON CAN,GET HAMMER,TAP LID TO SEAT,AND PLACE HAMMER AND CAN ASIDE ENDS WITH RELEASE OF CAN
NF	U	MAF	3176	MPKLI01	160	LID,INSTALL ON CAN STARTS-WITH REACH TO LID INCLUDES-ALL THE MOTIONS NECESSARY TO OBTAIN LID,PLACE ON TOP OF CAN,POSITION AND APPLY PRESSURE ENDS-WITH RELEASE OF CAN
FFE	U	MAA	GJPLAA1	MPKLI02	1016	LID,INSTALL AND SEAL ON FIVE-GALLON CONTAINER, 16 PRY TABS STARTS-WITH GET HAMMER INCLUDES-ALL MOTIONS NECESSARY TO BEND TO CONTAINER,GET LID,PLACE ON CONTAINER,PLACE FOOT ON LID TO HOLD,STRIKE EACH TAB THREE BLOWS TO SEAL LID,REMOVE FOOT FROM LID,AND ARISE ENDS-WITH ASIDE HAMMER
FFD	U	MAA	MPKLO01	MPKLPO1	382	LID,PRY OFF CAN TO 6-INCH DIAMETER STARTS-WITH REACH TO CAN INCLUDES-ALL MOTIONS NECESSARY TO GET CAN,MOVE INTO POSITION,GET TOOL,PRY OFF LID,AND PLACE TOOL AND LID ASIDE ENDS-WITH RELEASE OF LID AND TOOL
AF	U	MAO	BXRT001	MPKLRO1	45	LID(BOX),REMOVE STARTS-WITH REACH TO BOX TOP INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP TOP AND LIFT ASIDE TO TABLE ENDS-WITH RELEASE OF LID CONDITIONS-TOP LOOSE ON BOX-DOES NOT INCLUDE RELEASE OR REMOVE FASTENERS
FFE	U	MAA	GJPLDA1	MPKLRO2	744	LID,REMOVE FROM FIVE-GALLON CONTAINER,16 PRY TABS STARTS-WITH GET SCREWDRIVER INCLUDES-ALL MOTIONS NECESSARY TO BEND TO CONTAINER,PRY TABS OUT WITH SCREWDRIVER,REMOVE AND ASIDE LID AND ARISE ENDS-WITH ASIDE SCREWDRIVER

OFFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	OWMSTUP ELEMENT	THU VALUE	OPERATION/ELEMENT DESCRIPTION																																														
FFE	U	MAA	LPKBUI2	MPKOU01	178	OBJECT, UNWRAP STARTS-WITH REACH TO GET SMALL WRAPPED OBJECT INCLUDES-ALL THE MOTIONS NECESSARY TO PUT OBJECT IN POSITION TO UNWRAP, REMOVE PAPER FROM OBJECT ENDS-WITH ASIDE PAPER CONDITIONS-PAPER WRAPPED OBJECT NOT EXCEEDING 2.5 POUNDS AND LARGEST DIMENSION DOES NOT EXCEED 12 INCHES																																														
FFD	U	MAA	MPKUS01	MPKSC01	158	STRING, CUT AND OPEN BAG STARTS-WITH REACH TO BAG INCLUDES-ALL MOTIONS NECESSARY TO GET BAG, CUT DRAWSTRING, AND OPEN BAG ENDS-WITH BAG IN HAND CONDITION-APPLIES TO BAG WITH DRAWSTRING WITH OPENING UP TO 6 INCHES																																														
FFD	U	MAA	MPKEEXX	TPKEUXX	TAB1E	ENVELOPE, OPEN, EMPTY, AND ASIDE STARTS-WITH REACH TO ENVELOPE INCLUDES-ALL MOTIONS NECESSARY TO GET ENVELOPE, TEAR OPEN, EMPTY CONTENTS, AND PLACE ENVELOPE ASIDE ENDS-WITH RELEASE OF ENVELOPE CONDITION-EACH CASE INCLUDES CONSTANT TIME FOR TEARING ENVELOPE (OPEN(SOURCE CODE MPK-EE-CX) WIDTH OF ENVELOPE(INCHES)) <table><tr><td>DISTANCE FOR GET AND ASIDE ENVELOPE(INCHES)</td><td>1-5</td><td>5-9</td></tr><tr><td></td><td>A</td><td>B</td></tr><tr><td>3-9</td><td>A</td><td>136</td></tr><tr><td>9-15</td><td>B</td><td>148</td></tr><tr><td>15-21</td><td>C</td><td>160</td></tr><tr><td></td><td></td><td>174</td></tr></table>	DISTANCE FOR GET AND ASIDE ENVELOPE(INCHES)	1-5	5-9		A	B	3-9	A	136	9-15	B	148	15-21	C	160			174																												
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15-21	C	160																																																		
		174																																																		
FFD	U	MAA	MPKOBXX	TPKTCXX	TAB1E	TAPE, CUT TO OPEN BOX, TAPE ON TWO SIDES AND MIDDLE OF BOX TOP STARTS-WITH REACH TO BOX INCLUDES-ALL MOTIONS NECESSARY TO MOVE BOX IN POSITION, GET KNIFE, CUT TAPE, LAY KNIFE ASIDE, OPEN TWO FLAPS, TURN BOX 90 DEGREES, AND OPEN TWO FLAPS ENDS-WITH HANDS ON FLAPS CONDITIONS-IF REQUIRED, WEIGHT FACTORS MUST BE ADDED TO THIS ELEMENT <table><tr><td>HEIGHT OF BOX INCHES</td><td colspan="5">LARGEST DIMENSION OF BOX(INCHES)</td></tr><tr><td></td><td>TO 6</td><td>6-12</td><td>12-18</td><td>18-24</td><td>24-30</td></tr><tr><td></td><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td></tr><tr><td>TO 9</td><td>A</td><td>306</td><td>352</td><td>392</td><td>446</td><td>475</td></tr><tr><td>9-15</td><td>B</td><td>313</td><td>364</td><td>400</td><td>454</td><td>488</td></tr><tr><td>15-21</td><td>C</td><td>321</td><td>373</td><td>413</td><td>467</td><td>498</td></tr><tr><td>21-27</td><td>D</td><td>339</td><td>385</td><td>423</td><td>477</td><td>506</td></tr></table>	HEIGHT OF BOX INCHES	LARGEST DIMENSION OF BOX(INCHES)						TO 6	6-12	12-18	18-24	24-30		A	B	C	D	E	TO 9	A	306	352	392	446	475	9-15	B	313	364	400	454	488	15-21	C	321	373	413	467	498	21-27	D	339	385	423	477	506
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OFF	U	MAA	GJRLRA1	SPKCOXX	VARIABLE	CAN, OPEN AND CLOSE, PRY TYPE LID TO SIX INCHES DIAMETER STARTS-WITH REACH TO CAN INCLUDES-ALL MOTIONS NECESSARY TO GET CAN, POSITION, GET TOOL, PRY OFF LID, ASIDE LID AND TIKIL, GET LID, POSITION ON CAN ENDS-WITH ASIDE CAN CASE 01 OPEN AND CLOSE CAN, HAMMER USED TO TAP LID TO SEAL CAN 02 OPEN AND CLOSE CAN, LID SEALED BY PRESSING WITH HANDS																																														

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA OCCUP- QUALITY SOURCE DMNSTOP TMU
SOURCE ATION CODE ELEMENT VALUE

OPERATION/ELEMENT DESCRIPTION

NAA U NAA MPLXXXX TPLOGXX TABLE

OBJECT, GET, PLACE TO USE, AND PLACE ASIDE
STARTS-WITH REACH TO OBJECT
INCLUDES-ALL MOTIONS NECESSARY TO GET CONTROL
OF AN OBJECT, MOVE OBJECT TO USE, AND MOVE THE
OBJECT ASIDE
ENDS-WITH RELEASE OF OBJECT
CONDITIONS-COLUMN A APPLIES TO MOVES OF LESS
THAN ONE INCH, TO OBTAIN CORRECT DISTANCE
RANGE, COMPUTE AVERAGE LENGTH OF REACH AND
MOVES.

DISTANCE RANGE (INCHES)
F 1-3 3-9 9-15 15-21 21-27
A B C D E F

EASY GRASP

PLACE TO USE
VARIABLE A 10 18 31 43 55 68
LOOSE B 18 26 40 53 66 80
CLOSE C 28 36 51 63 77 91
EXACT D 55 63 77 90 103 118

JUMBLED GRASP

PLACE TO USE
VARIABLE E 17 27 39 51 64 76
LOOSE F 25 35 48 61 75 88
CLOSE G 39 45 59 71 86 99
EXACT H 62 72 85 98 112 126

NAA U NAA XPLXXXX TPLOPXX TABLE

OBJECT, PLACE WITH A COMBINATION OF MOVE AND/OR
POSITION MOTIONS USING THE HAND(S) OR FINGERS
STARTS-WITH THE HAND ON THE OBJECT TO BE
PLACED
INCLUDES-ALL MOTIONS NECESSARY TO TRANSPORT
AND/OR PLACE THE OBJECT IN THE DESIRED
LOCATION
ENDS-WITH THE HAND ON THE OBJECT
CONDITIONS-DISTANCE RANGE COLUMN A APPLIES
TO POSITION OBJECTS ONLY WITH NO MOVE; COLUMN
B APPLIES TO MOVES OF LESS THAN ONE INCH

DESCRIPTION DISTANCE RANGE (INCHES)
O F 1-2 3-9 9-15 15-21 21-27
A B C D E F G

APPROXIMATE
LOCATION
NO PRESSURE A - 2 5 9 13 17 21
WITH PRESS. B - 13 15 20 24 28 31

LOOSE FIT
SYMMETRICAL C 6 8 11 16 21 26 31
NOT SYM. D 9 11 14 19 24 30 35

CLOSE FIT
SYMMETRICAL E 16 18 21 27 31 37 42
NOT SYM. F 20 22 25 30 35 40 45

EXACT FIT
SYMMETRICAL G 43 45 48 53 58 63 69
NOT SYM. H 47 49 52 57 62 67 72

PLACE TO
OTHER HAND J 6 8 9 14 19 23 28

START
THREADED
FASTENER
VISIBLE K 26 29 34 39 44 49
BLIND L 60 63 68 73 78 83

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DMNSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
FFH	U	TAA	KPAACA4	MPTNCO1	67	NOZZLE(AEROSOL PAINT SPRAY CAN),CLEAR STARTS-WITH FINGER ON BUTTON,CAN INVERTED INCLUDES-ALL THE MOTIONS NECESSARY TO PRESS BUTTON,SPRAY PAINT TO CLEAR NOZZLE ENDS-WITH NOZZLE CLEARED,FINGER ON BUTTON
FF	U	TBA	BRDNRX	BRDRXX VARIABLE	19 9	DIGIT(S)(MIXED NUMBER),READ & RETAIN STARTS-WHEN VISION FALLS ON NUMBER INCLUDES-FOCUSING ON AND READING NUMBER ENDS-WHEN EYE COMPLETES READING NUMBER CONDITIONS-EXCLUDES EYE TRAVEL TO AND FROM NUMBER CASE 01 READ FIRST DIGIT 02 READ EACH ADDITIONAL DIGIT
NF	U	MAF	2591	BRDIL01	98	ITEM,LOCATE IN COLUMN STARTS-WITH BOOK OPEN TO DESIRED PAGE AND EYES AT REST ON COLUMN INCLUDES-ALL MOTIONS NECESSARY TO PLACE FINGER ON PAGE,SCAN DOWN THE COLUMN,AND SELECT AND READ THE DESIRED ENTRY ENDS-WITH MOVE HAND FROM PAGE CONDITION-APPLICABLE TO PAGE CONTAINING COLUMNS OF APPROXIMATELY 50 ITEMS EACH SUCH AS A PARTS CATALOG
FFF	U	TBA	BRDNRX	BRDRXX VARIABLE	12 5 55 7	NUMBER,READ,FIRST OR ADDITIONAL,NO EYE TRAVEL STARTS-WHEN EYE (VISION) FALLS ON NUMBER INCLUDES-FOCUSING EYE ON,READING,AND RETAINING NUMBER ENDS-WHEN EYE COMPLETES READING NUMBER(S) CONDITION-ALL NUMERICS CASE 01 FIRST DIGIT OF A NUMBER WITH ONE THROUGH FIVE DIGITS 02 EACH ADDITIONAL DIGIT OF A NUMBER WITH ONE THROUGH FIVE DIGITS 03 FIRST SIX DIGITS OF A NUMBER WITH SIX THROUGH TWELVE DIGITS 04 EACH ADDITIONAL DIGIT OF A NUMBER WITH SIX THROUGH TWELVE DIGITS
FFF	U	MAA	BRDWI01	BRDWI01	7	WORD,READ,INDIVIDUAL WORD,ALPHA NUMERIC,OR NUMBER TO TRANSPOSE STARTS-WITH EYES IN PLACE BUT NOT FOCUSED INCLUDES-EYE FOCUS ONLY ENDS-WITH EYES IN FOCUS CONDITIONS-ALLOW ONE OCCURRENCE FOR EACH NUMBER OF ONE THROUGH FIVE DIGITS OR FOR EACH SERIES OF FIVE DIGITS IN LARGE NUMBERS. ALLOW ONE ADDITIONAL OCCURRENCE FOR REMAINING DIGITS IN A LARGE NUMBER,IF LESS THAN FIVE.
MAA	U	MAA	BRDWS01	BRDWS01	5	WORD(SEQUENCE),READ,PER WORD STARTS-WITH FIXATION OF THE EYES INCLUDES-MOVEMENT OF THE EYES AND FOCUSING TO PERCEIVE READILY DISTINGUISHABLE WORDS ENDS-WITH COMPLETION OF MOVEMENT AND FIXATION OF THE EYES CONDITION-LIMITED TO NORMAL LETTERS AT NORMAL READING DISTANCE FROM THE EYES AND TO READING AVERAGE PROSE
NF	U	MAF	2608	MRDPF01	214	PAGE,FIND,IN MANUAL STARTS-REACH TO BOOK OR MANUAL INCLUDES-ALL MOTIONS NECESSARY TO OPEN BOOK TO DESIRED PAGE ENDS-WITH BOOK OPEN

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION																																																																																																		
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DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA OCCUP- QUALITY SOURCE DWNSTOP TMU
SOURCE ATION CODE ELEMENT VALUE

OPERATION/ELEMENT DESCRIPTION

FF U TRA TRDNVXX TRDNXX TABLE

NUMBER(S), NUMERIC, READ & VERIFY, EYE TRAVEL
FROM DOCUMENT TO DOCUMENT
STARTS-WITH EYE TRAVEL TO FIRST DOCUMENT FROM
SECOND DOCUMENT
INCLUDES-READ NUMBER ON ONE DOCUMENT AND LOOK
TO SECOND DOCUMENT AND READ NUMBER
ENDS-WITH EYES ON SECOND DOCUMENT AT COMPLET-
ION OF READING SECOND NUMBER

DISTANCE EYE TRAVEL
(IN INCHES)

DIGITS	10	15	20
READ	A	B	C
1 A	44	54	64
2 B	54	64	74
3 C	64	74	84
4 D	74	84	94
5 E	84	94	104
6 F	147	166	185
7 G	161	180	199
8 H	175	194	213
9 J	189	208	227
10 K	203	222	241
11 L	217	236	255
12 M	231	250	269

DL U MAL BCRP TRDSSXX TABLE

SHEET(S), SCAN FOR FAMILIAR REFERENCE POINT(S),
LETTER SIZE SHEETS

STARTS-WITH THE EYES MOVING TOWARD THE FIRST
SHEET TO BE SCANNED

INCLUDES-SCANNING SHEET(S), TURNING SHEET(S),
AND IDENTIFYING THE POINTS OF REFERENCE

ENDS-WHEN THE LAST SHEET IS SCANNED AND TURNED
OVER

CONDITIONS-DOES NOT INCLUDE READING THE
IDENTIFIED INFORMATION, MAKING ANY TYPE OF EDIT
OR CHECK MARK, WRITING, ETC.

REFERENCE POINTS IDENTIFIED

NUMBER OF SHEETS SCANNED	0	1	2	3	4
	A	B	C	D	E
1 A	17	31	45	60	74
2 B	51	66	80	94	109
3 C	86	100	115	129	143
4 D	121	135	149	164	178
5 E	155	170	184	198	212
6 F	190	204	218	233	247
7 G	224	239	253	267	282
8 H	259	273	288	302	316
9 J	294	308	322	337	351
10 K	328	343	357	371	385

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	OWMSTDP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	U	MAA	OSTCAXX	MSTCSXX	VARIABLE	<p>COAT, SPRAY(AEROSOL) STARTS-WITH REACH TO AEROSOL SPRAY CAN INCLUDES-ALL THE MOTIONS NECESSARY TO REMOVE CAP OR COVER FROM CAN, SHAKE CAN, POSITION FOR USE, ACTUATE BUTTON TO COAT A SPOT OR AREA, INVERT CAN, ACTUATE BUTTON TO BLOW VEHICLE FROM TUBE, REPLACE CAP OR COVER AND ASIDE CAN. ALSO INCLUDES MOTION TO COAT AN ADDITIONAL SPOT OR AREA AS NECESSARY ENDS-WITH CAN ASIDE CONDITIONS-APPLIES TO UNOBSTRUCTED SURFACE TREATMENT WITH PRIMER, RUST INHIBITOR, DRI-LUB, LACQUER OR SIMILAR SUBSTANCE-DOES NOT INCLUDE TIME FOR AGITATION OF NEW ISSUE OR EQUIVALENT CONDITION AEROSOL CAN CASE 01 SPOT(BOLT HEAD, RIVET, NUT, AREA TO TWO SQUARE INCHES) 517 551 1260 65 109 776 02 STRIP, LINEAR, 1X12 INCHES 03 AREA, SURFACE-ONE SQUARE FOOT 04 ADDITIONAL SPOT 05 ADDITIONAL STRIP(1X12 INCHES) 06 ADDITIONAL SURFACE AREA(PER SQUARE FOOT)</p>
FFD	U	MAA	BTFFMXX	BTFFMXX	VARIABLE	<p>FASTENER(THREADED), TURN WITH FINGER MOVE ONLY STARTS-WITH HAND ON FASTENER INCLUDES-ALL THE TIME NECESSARY TO MOVE FINGERS TO TURN A FASTENER ENDS-WITH HAND ON FASTENER CONDITION-APPLIES TO BOLT, SCREW, NUT, OR HAND KNOB TO 4 INCHES IN DIAMETER CASE 01 MOVE UP TO 1.5 INCHES 3 4 5 02 MOVE 1.5 INCHES TO 2.5 INCHES 03 MOVE 2.5 INCHES TO 3.5 INCHES</p>
FFD	U	MAA	BTFFSXX	BTFFSXX	VARIABLE	<p>FASTENER(THREADED), TURN BY SHIFT GRASP AND MOVE WITH FINGERS STARTS-WITH HAND ON FASTENER INCLUDES-ALL THE TIME NECESSARY TO TURN THE FASTENER BY SHIFTING GRASP AND MOVING FINGERS ENDS-WITH HAND ON FASTENER CASE 01 MOVE UP TO 1.5 INCHES 10 12 14 02 MOVE 1.5 TO 2.5 INCHES 03 MOVE 2.5 TO 3.5 INCHES</p>
FFD	U	MAL	BTFFTXX	BTFFTXX	VARIABLE	<p>FASTENER(THREADED), TURN WITH FINGER, PER THREAD STARTS-WITH HAND ON FASTENER INCLUDES-ALL THE MOTIONS NECESSARY TO TURN A FASTENER ONE THREAD ENDS-WITH HAND ON FASTENER CONDITIONS-TO DETERMINE CORRECT CASE USE THE DIAMETER OF THE OBJECT AT THE POINT OF CONTACT WITH HAND CASE 01 UP TO 0.25 INCHES O.D. 4 11 23 37 02 0.25 INCHES TO 0.75 INCHES O.D. 03 0.75 INCHES TO 1.75 INCHES O.D. 04 1.75 INCHES TO 3.25 INCHES O.D.</p>
FFH	U	MAA	BTFFPXX	BTFFP01	32	<p>NUT, POSITION ON STUD STARTS-WITH RELEASE OF WASHER PREVIOUSLY POSITIONED ON STUD INCLUDES-ALL THE MOTIONS NECESSARY TO UNPALM NUT AND POSITION ON A STUD ENDS-WITH NUT ON STUD READY TO START</p>
AF	U	MAO	MOE3E	BTFFP02	57	<p>NUT(SMALL), POSITION AND ENGAGE ON BOLT STARTS-WITH MOVE NUT TO BOLT INCLUDES-ALL THE MOTIONS NECESSARY TO ENGAGE A NUT ON A BOLT PRIOR TO RUN DOWN ENDS-WITH HAND ON NUT</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	ONMSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	U	NAA	BTFSBX	BTFSBX	VARIABLE	FASTENER(THREADED), START(BLIND) STARTS-WITH OBJECT UNDER CONTROL INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE AND BLIND POSITION AN OBJECT AND ENGAGE THREAD ENDS-WITH THE ENGAGEMENT OF THE THREAD CASE 01 MOVE TO POSITION-FRACTIONAL 02 MOVE TO POSITION 1-3 INCHES 06 MOVE TO POSITION 3-9 INCHES 12 MOVE TO POSITION 9-15 INCHES 18 MOVE TO POSITION 15-21 INCHES 24 MOVE TO POSITION 21-27 INCHES
					60	
					63	
					68	
					73	
					78	
					83	
FFD	U	NAA	BTFS01	BTFS01	10	FASTENER(THREADED), SPIN STARTS-WITH HAND NEAR FASTENER INCLUDES-ALL THE MOTIONS NECESSARY TO REACH BACK AND MOVE FINGERS FORWARD CONTACTING FASTENER TO TURN IT ENDS-WITH HAND NEAR FASTENER CONDITIONS-FASTENER MUST TURN FREELY
FFD	U	NAA	BTFSVXX	BTFSVXX	VARIABLE	FASTENER(THREADED), START(VISIBLE) STARTS-WITH OBJECT UNDER CONTROL INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE AND POSITION OBJECT AND ENGAGE THREAD ENDS-WITH THE ENGAGEMENT OF THE THREAD CASE 01 MOVE TO POSITION-FRACTIONAL 02 MOVE TO POSITION 1-3 INCHES 06 MOVE TO POSITION 3-9 INCHES 12 MOVE TO POSITION 9-15 INCHES 18 MOVE TO POSITION 15-21 INCHES 24 MOVE TO POSITION 21-27 INCHES
					26	
					29	
					34	
					39	
					44	
					49	
FFD	U	NAA	BTFT01	BTFT01	18	FASTENER(THREADED), TIGHTEN OR LOOSEN STARTS-WITH HAND ON FASTENER INCLUDES-ALL THE MOTIONS NECESSARY TO APPLY PRESSURE TO TIGHTEN OR LOOSEN A THREADED FASTENER ENDS-WITH HAND ON FASTENER
FFD	U	NAA	TTFIMAK	BTFA01	24	WASHER, ALIGN TO NUT BEFORE STARTING TO POSITION ON BOLT/SCREW STARTS-WITH WASHER AND NUT IN CLOSE PROXIMITY IN SEPARATE HANDS INCLUDES-ALL THE MOTIONS NECESSARY TO BRING WASHER AND NUT TOGETHER IN PROPER ALIGNMENT ENDS-NUT AND WASHER TOGETHER CONDITIONS-PLAIN, LOCK OR TAB WASHER TO 1 1/4 INCHES I.D.
FFD	U	NAA	TTFIMXX	BTFMPXX	VARIABLE	WASHER, PLACE ON SCREW OR BOLT STARTS-WITH WASHER AND OTHER OBJECT IN SEPARATE HANDS IN CLOSE PROXIMITY INCLUDES-ALL THE MOTIONS NECESSARY TO PLACE ON AND SEAT A WASHER ENDS-WITH WASHER SEATED CONDITIONS-PLAIN, LOCK OR TAB WASHERS TO 1 1/4 INCHES I.D. CASE 01 PLACE ON SCREW OR BOLT TO ONE INCH LONG 02 PLACE ON SCREW OR BOLT 1-3 INCH LONG
					26	
					35	
FFD	U	NAA	BTFMXX	BTFMXX	VARIABLE	FASTENER(THREADED), TURN WITH WRIST, PER REVOLU- TION STARTS-WITH HAND ON FASTENER INCLUDES-ALL THE MOTIONS NECESSARY TO TURN A FASTENER ONE REVOLUTION ENDS-WITH HAND ON FASTENER CASE 01 TURN 90 DEGREES 02 TURN 120 DEGREES 03 TURN 180 DEGREES
					59	
					53	
					46	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	THU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	U	MAA	BTFSXX	BTFSXX	VARIABLE	FASTENER(THREADED),TURN WITH WRIST,SHIFT GRASP AND TURN STARTS-WITH HAND ON FASTENER INCLUDES-ALL THE MOTIONS NECESSARY TO TURN A FASTENER A PARTIAL REVOLUTION ENDS-WITH HAND ON FASTENER CONDITIONS-SHIFT GRASP AND TURN SEQUENCE CASE 01 TURN 90 DEGREES 02 TURN 120 DEGREES 03 TURN 180 DEGREES 15 18 23
FFD	U	MAA	BTFTXX	BTFTXX	VARIABLE	FASTENER(THREADED),TURN WITH WRIST STARTS-WITH HAND ON FASTENER INCLUDES-ALL THE MOTIONS NECESSARY TO TURN A FASTENER A PARTIAL REVOLUTION ENDS-WITH HAND ON FASTENER CONDITIONS-TURN ONLY CASE 01 TURN 90 DEGREES 02 TURN 120 DEGREES 03 TURN 180 DEGREES 5 7 9
FFE	U	MAA	IOTAP3	MTFCIX	VARIABLE	CAP(OR PLUG),INSTALL,PLASTIC THREADED STARTS-WITH GET PLUG INCLUDES-ALL MOTIONS NECESSARY TO POSITION CAP OR PLUG,TURN DOWN FOUR THREADS,AND TIGHTEN ENDS-WITH RELEASE PLUG OR ASIDE TOOL CASE 01 CAP OR PLUG INSTALLED AND TIGHTENED BY HAND 02 CAP OR PLUG INSTALLED BY HAND AND TIGHTENED WITH TOOL(INCLUDES GET,USE, AND ASIDE TOOL) 294 394
FFE	U	MAA	IOTAP3	MTFCRX	VARIABLE	CAP(OR PLUG),REMOVE,PLASTIC THREADED STARTS-WITH REACH TO PLUG OR TOOL INCLUDES-ALL MOTIONS NECESSARY TO LOOSEN CAP OR PLUG,TURN OUT FOUR THREADS,AND ASIDE PLUG ENDS-WITH RELEASE PLUG OR ASIDE TOOL CASE 01 REMOVE CAP OR PLUG BY HAND 02 LOOSEN CAP OR PLUG WITH TOOL AND REMOVE BY HAND(INCLUDES GET,USE,AND ASIDE TOOL) 260 365
FFD	U	MAA	MTFETX	MTFFGX	VARIABLE	FASTENER(THREADED),GET(EASY)AND START(VISIBLE) STARTS-WITH MOVEMENT OF HAND TOWARD FASTENER INCLUDES-ALL THE MOTIONS NECESSARY TO REACH TO FASTENER,GAIN CONTROL,MOVE TO BOLT,STUD,OR NUT AND START ON THREAD ENDS-WITH RELEASE OF FASTENER CONDITIONS-UP TO AND INCLUDING 2.5 LBS.E.N.W. CASE 01 MOVE ONE INCH 02 MOVE 1-3 INCHES 06 MOVE 3-9 INCHES 12 MOVE 9-15 INCHES 18 MOVE 15-21 INCHES 24 MOVE 21-27 INCHES 32 37 47 56 65 75
FFD	U	MAA	TTFIXX	MTFFIX	VARIABLE	FASTENER(THREADED),INSTALL STARTS-WITH GET FASTENER INCLUDES-ALL THE MOTIONS NECESSARY TO GET FASTENER,RUN DOWN BY HAND TO FIVE THREADS ENDS-WITH RELEASE OF FASTENER CONDITIONS-FASTENER NOT TIGHTENED CASE 01 EASY GET-VISIBLE START 02 EASY GET-BLIND START 03 JUMBLED GET-VISIBLE START 04 JUMBLED GET-BLIND START 05 SMO JUMBLED GET-VISIBLE START 06 SMO JUMBLED GET-BLIND START 89 123 97 131 134 205

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWNSOP ELEMENT	THU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	U	MAA	MTFJTXX	MTFFPX	VARIABLE	FASTENER(THREADED),GET(JUMBLED)AND START (VISIBLE) STARTS-WITH MOVEMENT OF HAND TOWARD FASTENER INCLUDES-ALL THE MOTIONS NECESSARY TO REACH TO FASTENER,GAIN CONTROL,MOVE TO BOLT,STUD,OR NUT,AND START ON THREAD ENDS-WITH RELEASE OF FASTENER CONDITIONS-UP TO AND INCLUDING 2.5 LBS. E.N.W. CASE 01 MOVE ONE INCH 02 MOVE 1-3 INCHES 06 MOVE 3-9 INCHES 12 MOVE 9-15 INCHES 18 MOVE 15-21 INCHES 24 MOVE 21-27 INCHES
					39	
					46	
					55	
					64	
					74	
					83	
FFD	U	MAA	MTFSTXX	MTFFSX	VARIABLE	FASTENER(THREADED),GET(JUMBLED SINO) AND START (VISIBLE) STARTS-WITH MOVEMENT OF HAND TOWARD FASTENER INCLUDES-ALL MOTIONS NECESSARY TO REACH TO FASTENER,GAIN CONTROL,MOVE TO BOLT,NUT,OR STUD AND START ON THREAD ENDS WITH RELEASE OF FASTENER CONDITIONS-UP TO AND INCLUDING 2.5 LBS.E.N.W.-PLACE VISIBLE CASE 01 MOVE ONE INCH 02 MOVE 1-3 INCHES 06 MOVE 3-9 INCHES 12 MOVE 9-15 INCHES 18 MOVE 15-21 INCHES 24 MOVE 21-27 INCHES
					76	
					83	
					92	
					101	
					111	
					120	
FFD	U	MAA	MTFPFX	MTFNPX	VARIABLE	NUT AND WASHER,POSITION ON STUD STARTS-WITH MOVE OF NUT AND WASHER TO STUD INCLUDES-ALL THE MOTIONS NECESSARY TO PLACE A WASHER AND NUT ON A STUD ENDS-WITH NUT ON STUD CONDITONS-DOES NOT INCLUDE ENGAGING OR THREADING NUT ON STUD CASE 02 MOVE TO STUD 1-3 INCHES 06 MOVE TO STUD 3-9 INCHES 12 MOVE TO STUD 9-15 INCHES 18 MOVE TO STUD 15-21 INCHES
					27	
					33	
					37	
					43	
FFD	U	MAA	GEAFNSU	MTFPF01		80 FASTENER(THREADED),POSITION IN HOLE STARTS-WITH REACH TO GET BOLT INCLUDES-ALL THE MOTIONS NECESSARY TO GET BOLT AND POSITION IN HOLE,MOVE BOLT INTO HOLE, RELEASE BOLT ENDS-WITH RELEASE BOLT CONDITIONS-MOVE UP TO THREE INCHES INTO HOLE
FFH	U	MAA	KTFWRA1	MTFMPQ1		73 WASHER,PLACE ON BOLT OR SCREW STARTS-WITH BOLT IN HAND INCLUDES-ALL MOTIONS NECESSARY TO GET WASHER, POSITION TO BOLT,AND SLIDE ON BOLT ENDS-WITH WASHER SEATED ON BOLT,BOLT IN HAND CONDITIONS-BOLT ONE-THREE INCHES LONG,WASHER TO 1 1/4 INCHES INSIDE DIAMETER,APPLICABLE TO PLAIN,LOCK,OR TAB WASHERS
FFH	U	MAA	KTFWRA2	MTFMP02		62 WASHER,PLACE IN ALIGNMENT WITH NUT PRIOR TO STARTING NUT ON THREADS STARTS-WITH NUT IN HAND INCLUDES-ALL MOTIONS NECESSARY TO GET WASHER AND ALIGN TO NUT ENDS-WITH NUT AND WASHER ALIGNED CONDITIONS-PLAIN,LOCK,OR TAB WASHER TO 1 1/4 INCHES INSIDE DIAMETER

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

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FFD	U	MAA	TTFINXX	TTFFIXX	TABLE	FASTENER(THREADED),INSTALL WITH HAND STARTS-WITH GET FASTENER INCLUDES-ALL THE MOTIONS NECESSARY TO GET FASTENER,START,RUN DOWN BY HAND THE REQUIRED NUMBER OF THREADS ENDS-FASTENER RUN DOWN CONDITIONS-FASTENER NOT TIGHTENED <table><tr><td colspan="2"></td><td colspan="3">5-10 THREADS</td></tr><tr><td>TYPE</td><td>EASY</td><td>JUMBLED</td><td>JUMBLED</td><td></td></tr><tr><td>OF START</td><td>GET</td><td>GET</td><td>SIMO GET</td><td></td></tr><tr><td></td><td>A</td><td>B</td><td>C</td><td></td></tr><tr><td>VISIBLE A</td><td>133</td><td>141</td><td>178</td><td></td></tr><tr><td>BLIND B</td><td>178</td><td>186</td><td>193</td><td></td></tr></table> <table><tr><td colspan="2"></td><td colspan="3">10-15 THREADS</td></tr><tr><td>TYPE</td><td>EASY</td><td>JUMBLED</td><td>JUMBLED</td><td></td></tr><tr><td>OF START</td><td>GET</td><td>GET</td><td>SIMO GET</td><td></td></tr><tr><td></td><td>A</td><td>B</td><td>C</td><td></td></tr><tr><td>VISIBLE C</td><td>199</td><td>207</td><td>244</td><td></td></tr><tr><td>BLIND D</td><td>233</td><td>241</td><td>248</td><td></td></tr></table>			5-10 THREADS			TYPE	EASY	JUMBLED	JUMBLED		OF START	GET	GET	SIMO GET			A	B	C		VISIBLE A	133	141	178		BLIND B	178	186	193				10-15 THREADS			TYPE	EASY	JUMBLED	JUMBLED		OF START	GET	GET	SIMO GET			A	B	C		VISIBLE C	199	207	244		BLIND D	233	241	248	
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FFD	U	MAA	TTFRHXX	TTFFRXX	TABLE	FASTENER(THREADED),REMOVE WITH HAND STARTS-WITH REACH TO LOCATE FASTENER INCLUDES-ALL THE MOTIONS NECESSARY TO LOCATE FASTENER AND RUN OFF BY HAND ENDS-WITH FASTENER IN HAND CONDITIONS-FASTENER ALREADY LOOSE <table><tr><td colspan="2"></td><td colspan="2">UNOBSTRUCTED</td><td colspan="2">OBSTRUCTED</td></tr><tr><td>NUMBER OF</td><td></td><td>BLIND</td><td>CLEAR</td><td>BLIND</td><td>CLEAR</td></tr><tr><td>THREADS</td><td></td><td>A</td><td>B</td><td>C</td><td>D</td></tr><tr><td>TO RUN OFF</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>TO FIVE A</td><td>58</td><td>50</td><td>97</td><td>89</td><td></td></tr><tr><td>5-10 B</td><td>102</td><td>94</td><td>193</td><td>185</td><td></td></tr><tr><td>10-15 C</td><td>168</td><td>160</td><td>337</td><td>329</td><td></td></tr></table>			UNOBSTRUCTED		OBSTRUCTED		NUMBER OF		BLIND	CLEAR	BLIND	CLEAR	THREADS		A	B	C	D	TO RUN OFF						TO FIVE A	58	50	97	89		5-10 B	102	94	193	185		10-15 C	168	160	337	329																			
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FFH	U	MAA	BTLOPXX	BTLOPXX	VARIABLE	BAR(PRY),USE STARTS-WITH BAR IN POSITION AND READY TO USE INCLUDES-ALL MOTIONS NECESSARY TO MOVE OBJECT BY PRYING ENDS-WITH BAR IN PLACE AFTER USE CONDITIONS-LIMITED TO 2.5 POUNDS RESISTANCE WITH ONE HAND USE AND 5.0 POUNDS RESISTANCE WITH TWO HAND USE.FOR MOVES WITH WEIGHT SUPPLEMENT WITH TEL-WF-XX CASE 01 OBJECT MOVED LESS THAN ONE INCH 02 OBJECT MOVED 1-3 INCHES 06 OBJECT MOVED 3-9 INCHES 12 OBJECT MOVED 9-15 INCHES 20 25 34 43																																																												
FF	U	MAA	BTLCXX	BTLCXX	VARIABLE	CHISEL(COLD),USE,FIRST OR ADDITIONAL BLOWS STARTS-WITH CHISEL IN ONE HAND AND HAMMER IN THE OTHER INCLUDES-ALL MOTIONS NECESSARY TO POSITION CHISEL TO WORK AND STRIKE ONE BLOW WITH A HAMMER ENDS-WITH CHISEL AND HAMMER IN HAND CASE 01 FIRST OR SINGLE BLOW 02 EACH ADDITIONAL BLOW 72 17																																																												
FF	U	MAA	BTLP501	BTLP501	37	FILE(OR HACKSAW),USE PER STROKE STARTS-WITH TOOL IN POSITION FOR FIRST STROKE INCLUDES-APPLY PRESSURE,FORWARD STROKE,AND RETURN STROKE ENDS-WITH COMPLETION OF RETURN STROKE																																																												

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

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FFH	U	MAA	BTLMXX	BTLMXX	VARIABLE	<p>HAMMER(LIGHT), STRIKE ONE BLOW STARTS-WITH HAMMER IN HAND READY TO STRIKE BLOW INCLUDES-ALL MOTIONS NECESSARY TO MAKE ONE DOWN STROKE AND ONE UP STROKE WITH A HAMMER ENDS-WITH HAMMER IN POSITION FOR NEXT BLOW CONDITION-FOR USE OF HAMMER WITH CARE, ADD TPL-OP-8C FOR EACH BLOW, APPLICABLE TO USE OF HAMMER WEIGHING TO 2.5 POUNDS</p> <p>8 17 26 35 43</p> <p>CASE 02 HAMMER BLOW, 1-3 INCH STROKE 06 HAMMER BLOW, 3-9 INCH STROKE 12 HAMMER BLOW, 9-15 INCH STROKE 18 HAMMER BLOW, 15-21 INCH STROKE 24 HAMMER BLOW, 21-27 INCH STROKE</p>
FFH	U	MAA	BTLMXX	BTLMXX	VARIABLE	<p>HAMMER(MEDIUM), STRIKE ONE BLOW STARTS-WITH HAMMER IN HAND READY TO STRIKE BLOW INCLUDES-ALL MOTIONS NECESSARY TO MAKE ONE DOWN STROKE AND ONE UP STROKE WITH A HAMMER ENDS-WITH HAMMER IN POSITION FOR NEXT BLOW CONDITION-FOR USE OF HAMMER WITH CARE, ADD TPL-OP-8C FOR EACH BLOW, APPLICABLE TO USE OF HAMMER WEIGHING 2.5-7.5 POUNDS</p> <p>9 18 28 37 46</p> <p>CASE 02 HAMMER BLOW, 1-3 INCH STROKE 06 HAMMER BLOW, 3-9 INCH STROKE 12 HAMMER BLOW, 9-15 INCH STROKE 18 HAMMER BLOW, 15-21 INCH STROKE 24 HAMMER BLOW, 21-27 INCH STROKE</p>
FF	U	MAA	BTLMXX	BTLMXX	VARIABLE	<p>HATCHET, USE, STRIKE FIRST OR ADDITIONAL BLOW STARTS-WITH HATCHET IN HAND INCLUDES-ALL MOTIONS NECESSARY TO POSITION HATCHET TO OBJECT AND STRIKE ONE BLOW(CASE 01) OR STRIKE ADDITIONAL BLOW(CASE 02) ENDS-WITH HATCHET IN HAND READY FOR NEXT BLOW OR TO LAY ASIDE</p> <p>42 32</p> <p>CASE 01 FIRST OR SINGLE BLOW 02 EACH ADDITIONAL BLOW</p>
FF	U	MAA	BTLMXX	BTLMXX	VARIABLE	<p>KNIFE, USE, TO CUT OR SCRAPE, PER STROKE STARTS-WITH KNIFE IN POSITION FOR FIRST STROKE INCLUDES-APPLY PRESSURE, ONE FORWARD STROKE, AND ONE RETURN STROKE ENDS-WITH KNIFE IN HAND AT END OF THE RETURN STROKE</p> <p>16 20 28</p> <p>CASE 01 PER STROKE UP TO ONE INCH 02 PER STROKE, 1-3 INCHES 06 PER STROKE, 3-9 INCHES</p>
DND	U	MAO	LAIN5	BTLMXX	VARIABLE	<p>MATERIAL, CUT ALONG STRAIGHTEDGE WITH KNIFE STARTS-WITH KNIFE IN HAND, OTHER HAND HOLDING STRAIGHTEDGE INCLUDES-ALL MOTIONS NECESSARY TO MOVE KNIFE TO START POINT OF CUT, DRAW KNIFE ALONG STRAIGHTEDGE, LIFT KNIFE, MOVE BACK TO START POINT, AND MAKE SECOND CUT ENDS-WITH KNIFE IN HAND CONDITIONS-TIME TO GET AND PLACE STRAIGHTEDGE AND TO GET AND ASIDE KNIFE NOT INCLUDED</p> <p>150 15</p> <p>CASE 01 FIRST OR SINGLE SIX-INCH CUT 02 EACH ADDITIONAL SIX INCHES CUT WITHOUT LIFTING KNIFE</p>
FF	U	MAA	BTLPV01	BTLPV01	72	<p>PLIERS(VISE GRIP) ADJUST STARTS-WITH VISE GRIP PLIERS AT WORK PIECE INCLUDES-ALL MOTIONS NECESSARY TO CLOSE JAMS TO CHECK OPENING, OPEN JAMS, AND ADJUST SCREW (TWO CYCLES OF THE ABOVE MOTIONS ARE INCLUDED) ENDS-WITH CLOSING JAMS FOR FINAL CHECK OF OPENING SIZE</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

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AE	U	NAM	FPLADXX	BTLP002	75	PLIERS(SLIP JOINT),ADJUST STARTS-WITH PLIERS IN HAND INCLUDES-ALL MOTIONS NECESSARY TO ADJUST PLIERS TO DESIRED OPENING ENDS-WITH PLIERS IN HAND
PPH	U	NAA	BTLP0XX	BTLP0XX	VARIABLE	PLIERS(CONVENTIONAL),USE TO CUT,CRIMP,OR GRIP AN OBJECT STARTS-WITH PLIERS IN HAND POSITIONED ON PART INCLUDES-ALL MOTIONS NECESSARY TO CLOSE PLIERS,APPLY PRESSURE TO PLIER HANDLES,AND OPEN PLIERS ENDS-WITH PLIERS OPEN AND IN HAND CONDITION-NO TIME IS ALLOWED FOR DOING OTHER WORK WHILE OBJECT IS HELD 15 CASE 01 USE PLIERS,LIGHT RESISTANCE,TO 30 POUNDS 20 02 USE PLIERS,HEAVY RESISTANCE,30-45 POUNDS
PF	U	NAA	BTLP002	BTLP003	65	PLIERS(VISE GRIP),CLOSE ON OBJECT AND OPEN TO REMOVE STARTS-WITH PLIERS POSITIONED OVER OBJECT TO BE HELD INCLUDES-ALL MOTIONS NECESSARY TO CLOSE AND LOCK PLIERS;AND TO UNLOCK AND OPEN PLIERS ENDS-WITH PLIERS OPEN AND IN HAND CONDITION-NO TIME ALLOWED FOR WORK DONE WHILE OBJECT IS BEING HELD
PF	U	NAA	BTLS001	BTLS001	132	SOCKET,ATTACH TO ADAPTER AND ATTACH ADAPTER TO HANDLE STARTS-WITH ADAPTER HELD IN RIGHT HAND AND SOCKET IN LEFT HAND INCLUDES-ALL MOTIONS NECESSARY TO ATTACH THE SOCKET TO THE ADAPTER AND TO ATTACH THE ADAPTER TO EXTENSION,HANDLE,ETC. ENDS-WITH TOOL IN HAND,READY FOR USE
PPH	U	NAA	BTLS0XX	BTLS0XX	VARIABLE	SCREWDRIVER,CONVENTIONAL,USE STARTS-WITH TOOL IN HAND,READY FOR USE INCLUDES-ALL MOTIONS NECESSARY TO USE SCREWDRIVER AS INDICATED ENDS-WITH SCREWDRIVER IN PLACE AFTER USE 23 CASE 01 ENGAGE SCREWDRIVER TO PART AND DISENGAGE FROM PART 8 02 CONVENTIONAL SCREWDRIVER,FINGER TURN, PER MOVE,TO 3/4 INCH DIAMETER HANDLE 12 03 CONVENTIONAL SCREWDRIVER,FINGER TURN, PER MOVE,3/4-2 INCH DIAMETER HANDLE 21 04 CONVENTIONAL SCREWDRIVER,FINGER TURN, PER THREAD,TO 3/4 INCH DIAMETER HANDLE 31 05 CONVENTIONAL SCREWDRIVER,FINGER TURN, PER THREAD,3/4-2 INCH DIAMETER HANDLE 18 06 CONVENTIONAL SCREWDRIVER,WRIST TURN, PER MOVE 53 07 CONVENTIONAL SCREWDRIVER,WRIST TURN, PER THREAD
PF	U	NAA	BTLS002	BTLS001	62	SOCKET,DISENGAGE FROM ADAPTER AND REMOVE ADAPTER FROM HANDLE STARTS-WITH HANDLE,WITH SOCKET AND ADAPTER ATTACHED,HELD IN HAND INCLUDES-ALL MOTIONS NECESSARY TO REMOVE SOCKET FROM ADAPTER AND ADAPTER FROM HANDLE ENDS-WITH REMOVAL OF ADAPTER FROM HANDLE

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DMSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
FFH	U	MAA	BTLSRX	BTLSRX	VARIABLE	SCREWDRIVER, RATCHET, USE STARTS-WITH SCREWDRIVER IN HAND, READY FOR USE INCLUDES-ALL MOTIONS NECESSARY TO USE SCREWDRIVER AS INDICATED ENDS-WITH SCREWDRIVER IN PLACE AFTER USE 9 CASE 01 MOVE TURN MOTION, PER MOVE 23 02 MOVE TURN MOTION, PER THREAD 14 03 WRIST TURN MOTION, PER TURN 41 04 WRIST TURN MOTION, PER THREAD
FF	U	MAA	BTLSXX	BTLSXX	VARIABLE	SCISSORS (OR SHEARS), CUT STARTS-WITH SCISSORS OR SHEARS POSITIONED FOR CUTTING INCLUDES-ALL MOTIONS NECESSARY TO MAKE ONE CUT ALONG A LINE USING SCISSORS OR SHEARS ENDS-WITH COMPLETION OF CUT 11 CASE 01 SMALL SCISSORS OR SHEARS, TO TWO INCH CUT WITH ONE HAND, UP TO 2.5 POUNDS RESISTANCE 13 02 LARGE SCISSORS OR SHEARS, 2-4 INCH CUT WITH TWO HANDS, UP TO FIVE POUNDS RESISTANCE
HF	U	MAF	953	BTLSU01	31	SCREWDRIVER, USE FOR FINAL TIGHTEN OR INITIAL LOOSEN STARTS-WITH SCREWDRIVER IN HAND AND POSITIONED IN SCREW SLOT INCLUDES-ALL MOTIONS NECESSARY TO APPLY PRESSURE AND TURN SCREW 90 DEGREES TO LOOSEN OR TO APPLY PRESSURE AND TURN SCREW 90 DEGREES TO TIGHTEN ENDS-WITH SCREWDRIVER IN SCREW SLOT
FFH	U	MAA	BTLDXX	BTLDXX	VARIABLE	TAP (OR DIE), CUT ONE THREAD STARTS-WITH TOOL POSITIONED INCLUDES-ALL MOTIONS NECESSARY TO CUT ONE THREAD WITH TAP OR DIE OR TO REMOVE TAP OR DIE ONE THREAD ENDS-WITH TOOL IN HAND CONDITIONS-MAXIMUM RESISTANCE FOR WRIST TURN MOTIONS-2.0 POUNDS AND FOR MOVE TURN MOTIONS- 2.5 POUNDS. 67 CASE 01 WRIST TURN MOTIONS, CUT ONE THREAD 46 02 WRIST TURN MOTION, REMOVE ONE THREAD 102 03 MOVE TURN MOTIONS, CUT ONE THREAD, UP TO TO 6 INCH HANDLE 63 04 MOVE TURN MOTION, REMOVE ONE THREAD, UP TO 6 INCH HANDLE 140 05 MOVE TURN MOTIONS, CUT ONE THREAD, 6-10 INCH HANDLE 85 06 MOVE TURN MOTION, REMOVE ONE THREAD, 6-10 INCH HANDLE
FFD	U	MAA	TTFAAX	BTLTUX	VARIABLE	TOOL, USE (ADDITIVE FOR INSTALLATION OR REMOVAL OF SELF-LOCKING FASTENERS) STARTS-WITH APPLY PRESSURE TO TOOL INCLUDES-ALL THE MOTIONS NECESSARY TO MAKE THREE 120 DEGREE TURNS WITH THE TOOL ENDS-WITH FASTENER TURNED ONE THREAD CONDITIONS-ELEMENT APPLICABLE TO INSTALL OR REMOVE THREADED FASTENER-ELEMENT IS USED AS AN ADDITIVE WHEN A SELF-LOCKING DEVICE IS USED WITH A THREADED FASTENER AND THE TIGHTENING OR LOOSENING IS DONE WITH THE TOOLS SHOWN FOR CASES BELOW 42 CASE 01 2.5-10 LBS RESISTANCE-USING NUTRIVER, SCREWDRIVER OR T HANDLE 57 02 10-20 LBS RESISTANCE-USING WRENCH WITH 12-16 INCH HANDLE 69 03 20-30 LBS RESISTANCE-USING WRENCH WITH 16-24 INCH HANDLE

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	U	MAF	2062	8TLWA01	77	WRENCH, ADJUST, MUNKEY OR CRESCENT STARTS-WITH WRENCH IN HAND INCLUDES-ALL MOTIONS NECESSARY TO REGRAASP WRENCH HANDLE, GET AND MOVE ADJUSTING SCREW FOUR TIMES, TRY WRENCH TO WORK, AND MAKE FINAL ADJUSTMENT ENDS-WITH WRENCH IN HAND ON WORK
FFH	U	MAA	8TLWHXX	8TLWHXX VARIABLE		HANDLE("T"), ENGAGE AND DISENGAGE OR USE TO TURN OBJECT STARTS-WITH TOOL IN HAND, READY FOR USE AS INDICATED INCLUDES-ALL MOTIONS NECESSARY TO ENGAGE AND DISENGAGE "T" HANDLE(CASE 01), OR TO USE THE "T" HANDLE TO TURN A PART(CASES 02-04) ENDS-WITH HAND ON HANDLE CONDITION-INCLUDES MOVES WITH RESISTANCE TO 2.5 POUNDS EFFECTIVE NET WEIGHT(ENW), AND WRIST TURNS WITH RESISTANCE TO 2.0 POUNDS ENW CASE 01 ENGAGE AND DISENGAGE "T" HANDLE 11 SPIN BY HAND, PER HAND SEQUENCE 12 WRIST TURN MOTIONS, PER THREAD 13 MOVE TURN MOTIONS, PER THREAD, "T" BAR WITH DIAMETER TO 16 INCHES
					26 15 46 68	
FFH	U	MAA	8TLWLXX	8TLWLXX VARIABLE		BOLT(OR NUT), LOOSEN OR TIGHTEN WITH WRENCH STARTS-WITH WRENCH ON PART TO BE LOOSENED OR TIGHTENED INCLUDES-ALL MOTIONS NECESSARY TO USE A WRENCH TO LOOSEN OR TIGHTEN A PART ENDS-WITH WRENCH ON PART CONDITION-APPLIES TO OVERCOMING INITIAL RESISTANCE ONLY WHEN LOOSENING OR THE FINAL APPLICATION OF PRESSURE WHEN TIGHTENING CASE 51 NORMAL RESISTANCE 52 HEAVY RESISTANCE
					16 35	
AF	U	MAO	MDLIG	8TLWP01	39	WRENCH(SPANNER), POSITION TO NUT AND REMOVE AFTER USE STARTS-WITH WRENCH IN HAND WITHIN TWO INCHES OF NUT INCLUDES-ALL THE MOTIONS NECESSARY TO POSITION A SPANNER WRENCH TO A NUT AND TO REMOVE THE WRENCH FROM THE NUT AFTER USE ENDS-WITH WRENCH IN HAND TWO INCHES FROM NUT
FFH	U	MAA	8TLWR01	8TLWR01	26	RATCHET(AND SOCKET), ENGAGE ON AND DISENGAGE FROM PART STARTS-WITH RATCHET IN HAND NEAR PART INCLUDES-ALL MOTIONS NECESSARY TO ENGAGE AND DISENGAGE SOCKET ENDS-WITH RATCHET IN HAND NEAR PART
FF	U	MAA	8TLWSXX	8TLWSXX VARIABLE		HANDLE(SPEED), ATTACH TO AND REMOVE FROM PART OR TURN HANDLE ONE THREAD STARTS-WITH TOOL IN HAND READY FOR USE INCLUDES-ALL MOTIONS NECESSARY TO USE TOOL AS INDICATED ENDS-WITH TOOL REMOVED FROM PART(CASE 01) OR TOOL ON PART(CASE 02) CONDITIONS-CASE 01 INCLUDES START AND STOP TIME FROM CRANK FORMULA CASE 01 ENGAGE AND DISENGAGE SOCKET 02 TURN HANDLE ONE THREAD WITH CRANKING MOTIONS(13-6 INCH CRANK DIAMETER)
					31 12	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
FF	U	MAA	BTLWXXX	BTLWXXX	VARIABLE	<p>WRENCH,TORQUE,USE STARTS-WITH WRENCH IN HAND AND OTHER HAND ON ADJUSTING DEVICE(CASE 01-02)OR WRENCH ON PART (CASES 51-62) INCLUDES-ALL MOTIONS NECESSARY TO ADJUST OR USE TORQUE WRENCH AS INDICATED ENDS-WITH WRENCH IN HAND</p> <p>37 CASE 01 SET TORQUE ON DIAL TYPE WRENCH 98 02 SET TORQUE ON SNAP TYPE WRENCH 39 51 FINAL TIGHTEN MOTION WITH SNAP TYPE WRENCH WITH 7-12 INCH HANDLE;THREAD DIAMETER 5/16 INCH 45 52 FINAL TIGHTEN MOTION WITH SNAP TYPE WRENCH WITH 12-16 INCH HANDLE;THREAD DIAMETER 5/16-1/2 INCH 55 61 FINAL TIGHTEN MOTION WITH DIAL TYPE WRENCH WITH 7-12 INCH HANDLE;THREAD DIAMETER TO 5/16 INCH 61 62 FINAL TIGHTEN MOTION WITH DIAL TYPE WRENCH WITH 12-16 INCH HANDLE;THREAD DIAMETER 5/16-1/2 INCH</p>
FF	U	MAA	BTLSWXX	BTLMUXX	VARIABLE	<p>WRENCH(STRAP),USE(ATTACH TO OBJECT) STARTS-WITH WRENCH IN HAND AT OBJECT INCLUDES-ALL MOTIONS NECESSARY TO PLACE A STRAP WRENCH ON OBJECT,BY PLACING LOOP OVER END OF OBJECT,TAKE UP SLACK IN STRAP AND LOCK STRAP ENDS-WITH WRENCH IN PLACE,READY TO TURN OBJECT CONDITION-APPLICABLE TO STRAP WRENCH WHERE WRENCH CAN BE PLACED OVER END OF OBJECT,NO THREADING OF STRAP IN WRENCH REQUIRED 82 CASE 01 ATTACH WRENCH WITH 10 INCH HANDLE 101 02 ATTACH WRENCH WITH 15 INCH HANDLE 119 03 ATTACH WRENCH WITH 20 INCH HANDLE</p>
FF	U	MAA	BTLSWXX	BTLMU04	32	<p>WRENCH(STRAP),USE(FINAL TIGHTEN OR INITIAL LOOSEN) STARTS-WITH WRENCH PLACED,STRAP LOCKED INCLUDES-ALL MOTIONS NECESSARY TO LOOSEN OR TIGHTEN WITH STRAP WRENCH ENDS-WITH WRENCH IN HAND CONDITION-APPLICABLE TO BREAK LOOSE OR FINAL TIGHTEN ONLY</p>
FF	U	MAA	BTLSW05	BTLMU05	75	<p>WRENCH(STRAP),USE,(MAKE ONE QUARTER TURN) STARTS-WITH WRENCH PLACED,STRAP LOCKED INCLUDES-ALL MOTIONS NECESSARY TO MAKE ONE QUARTER TURN ENDS-WITH WRENCH READY FOR NEXT OPERATION</p>
FF	U	MAA	BTLSW06	BTLMU06	39	<p>WRENCH(STRAP),USE,(REMOVE FROM OBJECT) STARTS-WITH WRENCH IN POSITION,LOCKED ON OBJECT INCLUDES-ALL MOTIONS NECESSARY TO UNLOCK STRAP AND REMOVE WRENCH ENDS-WITH WRENCH OFF OBJECT READY TO BE PLACED ASTOE</p>
NF	U	NAL	1062	MTLBU01	159	<p>BAR(PINCH),USE STARTS-WITH PINCH BAR IN HAND INCLUDES-ALL THE TIME NECESSARY TO MOVE THE PINCH BAR AND POSITION AT PART,PUSH BAR UNDER PART,RAISE AND LOWER PART,PULL BAR FROM UNDER PART ENDS-WITH BAR FREE FROM PART CONDITION-APPLICABLE TO RESISTANCE TO 25 POUNDS ENW</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWNSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
AE	U	MAH	FTDAXX	MTLDAXX	VARIABLE	<p>DIE (OR TAP), ASSEMBLE TO OR DISASSEMBLE FROM CHUCK OR HANDLE, HAND-HELD</p> <p>STARTS-(CASE 01-03 AND 05) WITH REACH TO TAP OR DIE, (CASE 04 AND 06) WITH HAND ON HANDLE READY TO APPLY PRESSURE TO LOOSEN HANDLE</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO ASSEMBLE TAP OR DIE TO CHUCK OR HANDLE OR TO DISASSEMBLE TAP OR DIE FROM CHUCK OR HANDLE</p> <p>ENDS-(CASES 01, 02, 04, AND 06) WITH RELEASE OF TAP OR DIE, AND (CASE 03 AND 05) WITH TAP OR DIE IN HAND</p> <p>CASE 01 ASSEMBLE TAP IN CHUCK</p> <p>02 DISASSEMBLE TAP FROM CHUCK</p> <p>03 ASSEMBLE TAP IN HANDLE</p> <p>04 DISASSEMBLE TAP FROM HANDLE</p> <p>05 ASSEMBLE DIE IN HANDLE</p> <p>06 DISASSEMBLE DIE FROM HANDLE</p>
					98	
					77	
					139	
					110	
					150	
					122	
FFD	U	MAA	TTFAAXX	MTLFLXX	VARIABLE	<p>FASTENER (THREADED), LOOSEN WITH HAMMER OR MALLET</p> <p>STARTS-WITH A REACH TO GET HAMMER OR MALLET</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO LOOSEN OR TIGHTEN A THREADED FASTENER WITH A HAMMER OR MALLET</p> <p>ENDS-WITH HAMMER OR MALLET ASIDE</p> <p>CASE 01 STRIKE SEVEN TO 12 INCH WRENCH HANDLE-TWO BLOWS</p> <p>02 STRIKE 12 TO 16 INCH WRENCH HANDLE-THREE BLOWS</p> <p>03 STRIKE 16 TO 24 INCH WRENCH HANDLE-FOUR BLOWS</p>
					111	
					139	
					167	
ND	U	MAO	LB1M2	MTLHRXX	VARIABLE	<p>HOLE, REAM BY HAND</p> <p>STARTS-WITH REACH TO REAMER</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE REAMER TO AND POSITION IN HOLE, GRASP HANDLE WITH BOTH HANDS AND RUN REAMER IN AND OUT DISENGAGE AND ASIDE REAMER</p> <p>ENDS-WITH ASIDE REAMER</p> <p>CASE 01 REAM FIRST OR SINGLE HOLE, FIRST INCH, HOLE UP TO 3/8 INCH DIAMETER</p> <p>02 EACH ADDITIONAL HOLE, REAM FIRST INCH, HOLE UP TO 3/8 INCH DIAMETER</p> <p>03 EACH ADDITIONAL INCH REAMED, FIRST OR ADDITIONAL HOLE, HOLE UP TO 3/8 INCH DIAMETER</p> <p>04 REAM FIRST OR SINGLE HOLE, FIRST INCH, HOLE 3/8 TO 3/4 INCH DIAMETER</p> <p>05 EACH ADDITIONAL HOLE, REAM FIRST INCH, HOLE 3/8 TO 3/4 INCH DIAMETER</p> <p>06 EACH ADDITIONAL INCH REAMED, FIRST OR ADDITIONAL HOLE, HOLE 3/8 TO 3/4 INCH DIAMETER</p> <p>07 REAM FIRST OR SINGLE HOLE, FIRST INCH, HOLE GREATER THAN 3/4 INCH DIAMETER</p> <p>08 EACH ADDITIONAL HOLE, REAM FIRST INCH, HOLE GREATER THAN 3/4 INCH DIAMETER</p> <p>09 EACH ADDITIONAL INCH REAMED, FIRST OR ADDITIONAL HOLE, HOLE GREATER THAN 3/4 INCH DIAMETER</p>
					754	
					716	
					608	
					1079	
					1042	
					934	
					1597	
					1559	
					1497	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWSTOP ELEMENT	TW/ VALUE	OPERATION/ELEMENT DESCRIPTION
DL	U	NAL	BMHB	MTLNCXX	VARIABLE	<p>MATERIAL(CLOTH), CUT WITH SCISSORS STARTS-WITH A MOVE OF THE SCISSORS TO THE MATERIAL INCLUDES-ALL THE TIME NECESSARY TO MAKE THE INITIAL CUT IN A PIECE OF MATERIAL AND CONTINUE THE CUT TO LENGTH SHOWN IN CASES ENDS-WITH THE SCISSORS IN POSITION TO CONTINUE CUTTING CONDITIONS-INITIAL CUT AND CUT UP TO 10 INCHES MADE WITH NORMAL OPENING AND CLOSING SCISSOR ACTIONS-CUTS OVER 10 INCHES ARE MADE WITH INITIAL CUT AND NORMAL SCISSOR ACTION FOR 10 INCHES AND THEN BY SLIDING SCISSORS WITHOUT OPENING OR CLOSING FOR THE REMAINDER OF THE CUT</p> <p>CASE 01 INITIAL TWO INCH CUT 02 INITIAL FOUR INCH CUT 03 INITIAL SIX INCH CUT 04 INITIAL EIGHT INCH CUT 05 INITIAL 10 INCH CUT 06 ADD FOR EACH ADDITIONAL 10 INCH CUT</p>
					45	
					54	
					63	
					73	
					81	
					34	
NF	U	NAF	2376	MTLPS01	97	<p>PUNCH(CENTER), STRIKE STARTS-WITH MOVE PUNCH TO OBJECT INCLUDES-ALL THE MOTIONS NECESSARY TO POSITION AND STRIKE CENTER PUNCH WITH A HAMMER ENDS-WITH MOVE PUNCH AWAY CONDITIONS-STRIKE PUNCH TWO TIMES</p>
FF	U	MAA	BYLCS01	MTLSC01	121	<p>SOCKET, CHANGE, 1/4, 3/8, OR 1/2 INCH DRIVE WITH BALL AND SOCKET LOCK STARTS-WITH REACH TO SOCKET INCLUDES-ALL MOTIONS NECESSARY TO REMOVE FIRST SOCKET FROM HANDLE OR EXTENSION, PLACE ASIDE ON PFG OR IN SOCKET SET, GET SECOND SOCKET, AND ATTACH TO HANDLE ENDS-WITH TOOL READY FOR USE</p>
DL	U	NAL	BECS	MTLSEXX	VARIABLE	<p>STENCIL, CUT, ELECTRIC STARTS-WITH STENCIL BOARD IN HAND READY TO POSITION IN CUTTER INCLUDES-ALL THE TIME NECESSARY TO CUT A STENCIL ON AN ELECTRIC MACHINE ENDS-WHEN THE COMPLETED STENCIL IS REMOVED FROM THE MACHINE</p> <p>CASE 01 ONE LINE, SIX CHARACTERS 02 TWO LINES, TOTAL SIX CHARACTERS 03 THREE LINES, TOTAL EIGHT CHARACTERS 04 FOUR LINES, TOTAL EIGHT CHARACTERS 05 FIVE LINES, TOTAL TEN CHARACTERS 06 SIX LINES, TOTAL TEN CHARACTERS 07 EACH ADDITIONAL CHARACTER 08 EACH BLANK SPACE REQUIRED TO SEPARATE WORDS OR CHARACTERS</p>
					375	
					462	
					636	
					723	
					897	
					994	
					44	
					17	
DL	U	NAL	BECS	MTLSMXX	VARIABLE	<p>STENCIL, CUT, MANUAL STARTS-WITH STENCIL BOARD IN HAND READY TO POSITION IN CUTTER INCLUDES-ALL THE TIME NECESSARY TO CUT A STENCIL ON A MANUAL MACHINE ENDS-WHEN THE COMPLETED STENCIL IS REMOVED FROM THE MACHINE</p> <p>CASE 01 ONE LINE, SIX CHARACTERS 02 TWO LINES, TOTAL SIX CHARACTERS 03 THREE LINES, TOTAL EIGHT CHARACTERS 04 FOUR LINES, TOTAL EIGHT CHARACTERS 05 FIVE LINES, TOTAL TEN CHARACTERS 06 SIX LINES, TOTAL TEN CHARACTERS 07 EACH ADDITIONAL CHARACTER 08 EACH BLANK SPACE REQUIRED TO SEPARATE WORDS OR CHARACTERS</p>
					469	
					561	
					771	
					863	
					1072	
					1165	
					59	
					26	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	U	MAF	937	MTLS001	99	SNIPS, OPEN, POSITION TO WORK, CLOSE AND PLACE ASIDE STARTS-WITH REACH TO SNIPS INCLUDES-ALL MOTIONS NECESSARY TO PICK UP SNIPS, POSITION TO WORK, REMOVE FROM WORK, CLOSE SNIPS, AND PLACE ASIDE ENDS-WITH RELEASE OF SNIPS
DND	U	MAD	LAIE/F	MTLSTXX	VARIABLE	SCREW, TURN IN AND TIGHTEN OR LOOSEN AND TURN OUT WITH SCREWDRIER STARTS-WITH GET SCREWDRIER INCLUDES-ALL MOTIONS NECESSARY TO ENGAGE SCREWDRIER TO SLOT IN SCREW, TURN SCREW IN, TIGHTEN SCREW, AND DISENGAGE SCREWDRIER ENDS-WITH ASIDE SCREWDRIER CONDITIONS-APPLICABLE TO USE OF CONVENTIONAL SCREWDRIER IN UNOBSTRUCTED LOCATION WITH NORMAL RESISTANCE, DOES NOT INCLUDE TIME TO GET SCREW AND START ON THREADS. "ADDITIONAL" CASES DO NOT INCLUDE GET AND ASIDE SCREWDRIER CASE 01 FIRST SCREW UP TO FIVE THREADS CASE 02 EACH ADDITIONAL SCREW UP TO FIVE THREADS AND UP TO 12 INCHES BETWEEN SCREWS CASE 03 FIRST SCREW, 5-10 THREADS CASE 04 EACH ADDITIONAL SCREW, 5-10 THREADS AND UP TO 12 INCHES BETWEEN SCREWS
					241	
					195	
					396	
					350	
NF	U	MAF	402X	MTLSU01	155	SHOVEL, USE, TO MOVE LOOSE MATERIAL SUCH AS SAND OR GRAVEL STARTS-WITH TURN TO MATERIAL TO BE SHOVELLED INCLUDES-ALL MOTIONS NECESSARY TO GET ONE SHOVELFUL OF MATERIAL AND TRANSFER IT TO AN OPEN CONTAINER SUCH AS A WHEELBARRROW ENDS-WITH MATERIAL EMPTIED INTO CONTAINER
NF	U	MAF	2199	MTLSU02	221	SHOVEL, USE STARTS-WITH SHOVEL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO PUSH SHOVEL INTO GROUND, STEP BACK, PUSH DOWN ON SHOVEL HANDLE TO LOOSEN DIRT, LIFT SHOVELFUL OF DIRT, MOVE AND DUMP DIRT, AND RETURN ENDS-WITH SHOVEL IN POSITION TO GET NEXT SHOVELFUL OF DIRT CONDITION-APPLICABLE TO SHOVELLING TOPSOIL OR SIMILAR
AE	U	MAW	FTCTC01	MTLTC01	690	TUBING, CUT WITH HAND HELD TUBE CUTTER, COPPER OR ALUMINUM TUBING 1/4-1/2 INCH DIAMETER STARTS-WITH CUTTER IN HAND OVER TUBING INCLUDES-ALL MOTIONS NECESSARY TO POSITION CUTTER, ADJUST CUTTER WHEEL, AND MAKE FIVE REVOLUTIONS WITH ADJUSTMENT OF THE CUTTER WHEEL AFTER EACH REVOLUTION ENDS-WITH CUTTER IN HAND OVER TUBING CONDITION-THIS ELEMENT APPLIES TO USE OF A HAND-HELD TUBING CUTTER APPROXIMATELY FOUR INCHES LONG
AF	U	MAF	MDE-2J1	MTLTG01	69	TOOL (TWO HANDLES), GET AND ASIDE STARTS-WITH REACH TO ONE HANDLE (RIGHT HAND) INCLUDES-ALL THE MOTIONS NECESSARY TO PICK UP TOOL BY ONE HANDLE, MOVE TO GRASP OTHER HANDLE WITH LEFT HAND, ADJUST GRIPS FOR USE, RELEASE WITH LEFT HAND, MOVE TOOL TO BENCH WITH RIGHT HAND, RELEASE ON BENCH ENDS-WITH RELEASE TOOL CONDITIONS-TOOL WITH TWO HANDLES, REQUIRES GRIP ON EACH HANDLE TO USE

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTD ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	U	MAF	3882	MTLYU01	77	<p>TOOL, OBTAIN FROM OPEN TOOLBOX AND ASIDE TO TOTE BOX OR BENCH TOP</p> <p>STARTS-WITH REACH TO TOOLS IN TOOLBOX</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO GET TOOL FROM OPEN TOOLBOX (INCLUDING MOVE OTHER TOOLS ASIDE), TURN TO TOTE BOX, AND DEPOSIT TOOL IN TOTE BOX</p> <p>ENDS-WITH RELEASE OF TOOL IN TOTE BOX</p> <p>CONDITION-ALSO APPLICABLE TO RETURNING TOOL TO OPEN TOOLBOX FROM TOTE BOX WHEN SEARCH FOR TOOL IN TOTE BOX OCCURS</p>
NF	U	MAF	928	MTLTR01	132	<p>TOOL, REMOVE, FROM AND RETURN TO BELT KIT</p> <p>STARTS-WITH REACH TO TOOL IN KIT</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO REMOVE TOOL FROM BELT KIT, PLACE TO USE, AND RETURN TOOL TO KIT</p> <p>ENDS-WITH RELEASE OF TOOL</p>
FFE	U	MAA	67L0SA2	MTLMA01	397	<p>WRENCH (TORQUE), ADJUST INDICATOR</p> <p>STARTS-WITH WRENCH IN HAND</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO GET INDICATOR AND ADJUST INDICATOR TO DESIRED SETTING WITH 90-DEGREE TURNS</p> <p>ENDS-WITH WRENCH IN HAND</p> <p>CONDITIONS-AN AVERAGE OF FIVE REVOLUTIONS REQUIRED TO OBTAIN DESIRED SETTING</p>
AF	U	MAA	WICE001	MTLWC01	86	<p>WIRE, CUT WITH DIAGONAL PLIERS</p> <p>STARTS-WITH SIMO REACH TO WIRE AND PLIERS</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO PULL WIRE TIGHT, POSITION TO WIRE, CUT WIRE, AND ASIDE PLIERS</p> <p>ENDS-WITH RELEASE OF PLIERS</p>
AF	U	MAO	WDESP1	MTLWP01	31	<p>WRENCH (HEX NUT DRIVER), POSITION TO NUT, REMOVE</p> <p>STARTS-WITH WRENCH IN HAND</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO POSITION A WRENCH ON A NUT PRIOR TO RUN DOWN/TIGHTEN AND TO DISENGAGE</p> <p>ENDS-WITH DISENGAGE WRENCH FROM NUT</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA OCCUP- QUALITY SOURCE DWNSTOP TMU
SOURCE ATION CODE ELEMENT VALUE

OPERATION/ELEMENT DESCRIPTION

FFD U NAA TYFITXX TYLFIXX TABLE

FASTENER (THREADED), INSTALL WITH HAND TOOL
STARTS-WITH REACH TO FASTENER
INCLUDES-ALL MOTIONS NECESSARY TO GET
FASTENER, START FASTENER ON THREADS BY HAND,
TURN FASTENER DOWN BY HAND, ENGAGE TOOL ON
FASTENER, TURN FASTENER DOWN AND TIGHTEN WITH
TOOL, AND DISENGAGE TOOL
ENDS-WITH TOOL IN HAND
CONDITIONS-NO TIME INCLUDED FOR GET/ASIDE
TOOL, REACH TO FASTENER DISTANCE IS ONE-THREE
INCHES. HEAVY RESISTANCE REQUIRES TOOL TO TURN
FASTENER THE TOTAL THREAD LENGTH. NORMAL
RESISTANCE REQUIRES TOOL FOR FINAL THREAD.

TYPE OF TOOL	TO FIVE THREADS			
	UNOBSTRUCTED/ UNRESTRICTED RESISTANCE		OBSTRUCTED/ RESTRICTED RESISTANCE	
	HEAVY-NORMAL A B		HEAVY-NORMAL C D	
YANKEE SCREWDRIER	A	97		
NUTDRIVER OR SCREWDRIER	B	155		
T-HANDLE WRENCH NO RESISTANCE TO SPIN	C	169		
NORMAL RESIST. AFTER START	D	288		
ALLEN WRENCH	E	493	310	1292
RATCHET WRENCH	F	371	192	
OPEN OR BOX END, BREAKOVER, OR ADJUSTABLE WRENCH				
THREAD DIAMETER				
TO 5/8 INCH	G	493	208	1292
5/8-1 1/8 INCH	H	662	341	1505
				644
SPEED WRENCH	J		130	
SPANNER WRENCH (1 OR 2 LUGS)	K	662	341	
STRAP WRENCH (10-20 INCH HANDLE)	L	1121	627	

TYPE OF TOOL	5-10 THREADS			
	UNOBSTRUCTED/ UNRESTRICTED RESISTANCE		OBSTRUCTED/ RESTRICTED RESISTANCE	
	HEAVY-NORMAL E F		HEAVY-NORMAL G H	
YANKEE SCREWDRIER	A	132		
NUTDRIVER OR SCREWDRIER	B	286		

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	U	MAA	TYFITXX	TYLFIXX		
5-10 THREADS (CONT'D)						
UNOBSTRUCTED/ UNRESTRICTED RESISTANCE						
HEAVY-NORMAL						
E F						
OBSTRUCTED/ RESTRICTED RESISTANCE						
HEAVY-NORMAL						
G H						
T-HANDLE WRENCH NO RESISTANCE TO SPIN						
				C	319	
NORMAL RESIST. AFTER START						
				D	486	
ALLEN WRENCH						
				E	1213	460 1744
RATCHET WRENCH						
				F	826	247
OPEN OR BOX END, BREAKOVER, OR ADJUSTABLE WRENCH						
THREAD DIAMETER						
TO 5/8 INCH						
				G	1213	263 3332 534
5/8-1 1/8 INCH						
				H	1682	606 3905 939
SPEED WRENCH						
				J	190	
SPANNER WRENCH (1 OR 2 LUGS)						
				K	1682	606
STRAP WRENCH (10-20 IN. HOL)						
				L	2621	892
10-15 THREADS						
UNOBSTRUCTED/ UNRESTRICTED RESISTANCE						
HEAVY-NORMAL						
J K						
OBSTRUCTED/ RESTRICTED RESISTANCE						
HEAVY-NORMAL						
L H						
YANKEE SCREWDRIIVER						
				A	167	
NUTDRIVER OR SCREWDRIIVER						
				B	415	
T-HANDLE WRENCH NO RESISTANCE TO SPIN						
				C	469	
NORMAL RESIST. AFTER START						
				D	684	
ALLEN WRENCH						
				E	1933	610 2196
RATCHET WRENCH						
				F	1281	302
OPEN OR BOX END, BREAKOVER, OR ADJUSTABLE WRENCH						
THREAD DIAMETER						
TO 5/8 INCH						
				G	1933	318 5372 589
5/8-1 1/8 INCH						
				H	2702	871 6305 1234
SPEED WRENCH						
				J	250	
SPANNER WRENCH (1 OR 2 LUGS)						
				K	2702	871
STRAP WRENCH (10-20 IN. HOL)						
				L	4121	1157

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA OCCUP- QUALITY SOURCE DWHSTOP TMU
SOURCE ATION CODE ELEMENT VALUE

OPERATION/ELEMENT DESCRIPTION

FFD U MAA TTFRTXX TTLFRXX TABLE

FASTENER(THREADED), REMOVE WITH HAND TOOL
STARTS-WITH TOOL IN HAND AT FASTENER
INCLUDES-ALL MOTIONS NECESSARY TO ENGAGE TOOL
ON FASTENER, LOOSEN FASTENER, TURN FASTENER WITH
TOOL AS NECESSARY, DISENGAGE TOOL, GET FASTENER
WITH FINGERS, TURN FASTENER OUT REMAINING
THREADS BY HAND
ENDS-WITH FASTENER IN HAND
CONDITIONS-NO TIME INCLUDED TO GET/ASIDE TOOL.

TYPE OF TOOL	TO FIVE THREADS		UNOBSTRUCTED/ UNRESTRICTED RESISTANCE		OBSTRUCTED/ RESTRICTED RESISTANCE	
			HEAVY-NORMAL		HEAVY-NORMAL	
			A	B	C	D
YANKEE SCREWDRIER	A			76		
NUTDRIVER OR SCREWDRIER	B			162		
T-HANDLE WRENCH NO RESISTANCE AFTER LOOSEN	C			115		
NORMAL RESIST. AFTER LOOSEN	D			212		
ALLEN WRENCH	E	521	277			852
RATCHET WRENCH REMOVE WITH TOOL ONLY	F	364				
LOOSEN W/TOOL. REMOVE BY HAND	G			168		
OPEN OR BOX END, BREAKOVER, OR ADJUSTABLE WRENCH THREAD DIAMETER TO 5/8 INCH 5/8-1 1/8 INCH	H	336	184		871	455
	J	487	317		1060	620
SPEED WRENCH	K			105		
SPANNER WRENCH (1 OR 2 LUGS)	L	487	317			
STRAP WRENCH (10-20-INCH HANDLE)	M	850	603			

	5-10 THREADS		UNOBSTRUCTED/ UNRESTRICTED RESISTANCE		OBSTRUCTED/ RESTRICTED RESISTANCE	
			HEAVY-NORMAL		HEAVY-NORMAL	
			E	F	G	H
YANKEE SCREWDRIER	A			111		
NUTDRIVER OR SCREWDRIER	B			267		

DEFENSE MODA MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DMSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION			
PPD	U	MAA	YTPRTX	YTLFAX		5-10 THREADS (CONT. D)			
						UNOBSTRUCTED/ UNRESTRICTED RESISTANCE		OBSTRUCTED/ RESTRICTED RESISTANCE	
						HEAVY-NORMAL		HEAVY-NORMAL	
						E	F	G	H
						T-HANDLE WRENCH			
						NO RESISTANCE			
						C	190		
						AFTER LOOSEN			
						NORMAL RESIST.			
						D	410		
						AFTER LOOSEN			
						ALLEN WRENCH			
						E 1241	427		1304
						RATCHET WRENCH			
						REMOVE WITH			
						F 819			
						TOOL ONLY			
						LOOSEN W/TOOL,			
						G	223		
						REMOVE BY HAND			
						OPEN OR BOX END,			
						BREAKOVER, OR			
						ADJUSTABLE			
						WRENCH			
						THREAD DIAMETER			
						TO 5/8 INCH			
						H 1056	239	2911	510
						5/8-1 1/8 INCH			
						J 1507	582	3460	915
						SPEED WRENCH			
						K	165		
						SPANNER WRENCH			
						L 1507	582		
						(1 OR 2 LUGS)			
						STRAP WRENCH			
						M 2350	868		
						(10-20 INCH			
						HANDLE)			
						10-15 THREADS			
						UNOBSTRUCTED/ UNRESTRICTED RESISTANCE		OBSTRUCTED/ RESTRICTED RESISTANCE	
						HEAVY-NORMAL		HEAVY-NORMAL	
						J	K	L	M
						YANKEE			
						A	146		
						SCREWDRIVER			
						NUTDRIVER OR			
						B	372		
						SCREWDRIVER			
						T-HANDLE WRENCH			
						NO RESISTANCE			
						C	265		
						AFTER LOOSEN			
						NORMAL RESIST.			
						D	608		
						AFTER LOOSEN			
						ALLEN WRENCH			
						E 1961	577		1756
						RATCHET WRENCH			
						REMOVE WITH			
						F 1274			
						TOOL ONLY			
						LOOSEN W/TOOL			
						G	278		
						REMOVE BY HAND			

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION			
FFD	U	MAA	TTFRTXX	TTLFRXX		10-15 THREADS (CONT'D)			
						UNOBSTRUCTED/ UNRESTRICTED RESISTANCE		OBSTRUCTED/ RESTRICTED RESISTANCE	
						HEAVY-NORMAL		HEAVY-NORMAL	
						J	K	L	M
						OPEN OR BOX END, BREAKOVER, OR ADJUSTABLE WRENCH			
						THREAD DIAMETER TO 5/8 INCH			
						H 1776	294	4951	565
						5/8-1 1/8 INCH J 2527	847	5860	1210
						SPEED WRENCH			
						K	225		
						SPANNER WRENCH (1 OR 2 LUGS)			
						L 2527	847		
						STRAP WRENCH (10-20 INCH HANDLE			
						M 3856	1133		
OFF	U	MAA	KTFANXX	TTLFTXX	TABLE	FASTENER (THREADED), TIGHTEN OR LOOSEN ONE THREAD, WITH END WRENCH, ALLEN WRENCH OR SIMILAR STARTS-WITH GET WRENCH INCLUDES-ALL THE MOTIONS NECESSARY TO POSITION WRENCH TO FASTENER, TURN FASTENER ONE THREAD TO SEAT, APPLY PRESSURE TO WRENCH TO TIGHTEN FASTENER, REMOVE WRENCH FROM FASTENER, AND ASIDE WRENCH; OR POSITION WRENCH TO FASTENER, APPLY PRESSURE TO WRENCH TO LOOSEN FASTENER, TURN FASTENER OUT ONE THREAD WITH WRENCH, REMOVE WRENCH FROM FASTENER, AND ASIDE WRENCH ENDS-WITH RELEASE OF WRENCH CONDITIONS-APPLICABLE TO TIGHTENING OR LOOSENING SETSCREW OR SIMILAR, DOES NOT INCLUDE INSTALLATION OR REMOVAL OF FASTENER.			
						DEGREES FASTENER TURNED (PER MOVE OF WRENCH)			
						60	120	180	
						A	B	C	
						FIRST FASTENER	A	310	210 174
						EACH ADD'L FASTENER	B	264	164 128
						EACH ADD'L THREAD	C	233	133 97

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
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DL	U	NAL	TTLHUXX	TTLHUXX	TABLE	<p>HAMMER,USE,STRIKE ONE BLOW</p> <p>STARTS-WITH REACH TO HAMMER</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO GET HAMMER, POSITION FOR STRIKING,STRIKE ONE BLOW,AND ASIDE HAMMER</p> <p>ENDS-WITH RELEASE OF HAMMER</p> <p>CONDITIONS-TIME VALUES IN COLUMNS C AND D INCLUDE ALIGNMENT OF HAMMER TO OBJECT BEFORE STRIKING BLOW</p>
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LENGTH OF STROKE (INCHES)		LIGHT HAMMER(TU 2.5 POUNDS) NORMAL		WITH CARE	
		FIRST BLOW	ADD BLOW	FIRST BLOW	ADD BLOW
1-3	A	63	8	74	16
3-9	B	72	17	83	25
9-15	C	81	26	92	34
15-21	D	90	35		
21-27	E	98	43		

LENGTH OF STROKE (INCHES)		MEDIUM HAMMER(2.5-7.5 POUNDS) NORMAL		WITH CARE	
		FIRST BLOW	ADD BLOW	FIRST BLOW	ADD BLOW
1-3	F	70	9	81	17
3-9	G	79	18	90	26
9-15	H	89	28	100	36
15-21	J	98	37		
21-27	K	107	46		

OFF	U	MAA	RLGDMQ3	TTLPLXX	TABLE	<p>PART,LOOSEN WITH MALLET AND REMOVE</p> <p>STARTS-WITH MALLET IN HAND</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO STRIKE PART WITH A MALLET TO LOOSEN,GET AND ASIDE LOOSENED PART</p> <p>ENDS-WITH PART ASIDE,MALLET IN HAND</p> <p>CONDITIONS-PART WEIGHS UP TO 10 POUNDS.ONE INCH AVERAGE ENGAGEMENT,MALLET WEIGHS 2.5 TO 7.5 POUNDS</p>
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NUMBER OF BLOWS		LENGTH OF STROKE(INCHES)				
		A 1-3	B 3-9	C 9-15	D 15-21	E 21-27
1	A	39	48	58	67	77
2	B	48	66	86	104	122
3	C	57	84	114	141	168
4	D	66	102	142	177	214
5	E	75	120	170	214	260

FFH	U	MAA	BTLSPPX	YTLSPPX	TABLE	<p>SCREWDRIER(SPIRAL),USE</p> <p>STARTS-WITH SCREWDRIER IN PLACE,READY TO USE</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO MAKE ONE UP AND ONE DOWN STROKE WITH SPIRAL SCREWDRIER</p> <p>ENDS-WITH TOOL IN PLACE AFTER USE</p> <p>CONDITION-APPLIES TO RESISTANCE ON THE DOWN STROKE OF UP TO 7.5 POUNDS EFFECTIVE NET WEIGHT</p>
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		LENGTH OF STROKE (INCHES)				
		2	3	4	5	6
		A	B	C	D	E
PER STROKE	A	10	12	15	17	19
PER THREAD	A	10	8	7	7	6

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	OWMSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION																																																																	
FFH	U	MAA	BTLMBXX	TTLMBXX	TABLE	<p>WRENCH,USE,BOX END,OPEN END,ALLEN WRENCH OR SIMILAR STARTS-WITH TOOL IN HAND,READY FOR USE INCLUDES-ALL MOTIONS NECESSARY TO USE WRENCH AS INDICATED ENDS-WITH WRENCH REMOVED FROM PART AND IN HAND CONDITION-APPLICABLE TO MOVE TURN MOTIONS,UP TO 2.5 POUNDS EFFECTIVE NET WEIGHT RESISTANCE, ONE DISENGAGE AND ONE POSITION INCLUDED FOR EACH TURN</p> <table><tr><th colspan="5">DEGREES TURNED EACH MOVE</th></tr><tr><th>THREAD DIAMETER(INCHES)</th><th>30</th><th>60</th><th>120</th><th>180</th></tr><tr><th></th><th>A</th><th>B</th><th>C</th><th>D</th></tr><tr><td>UP TO 5/8</td><td></td><td></td><td></td><td></td></tr><tr><td>FIRST MOVE</td><td>A 30</td><td>33</td><td>37</td><td>41</td></tr><tr><td>ADDITIONAL MOVE</td><td>B 34</td><td>40</td><td>48</td><td>56</td></tr><tr><td>FIRST THREAD</td><td>C 404</td><td>233</td><td>133</td><td>97</td></tr><tr><td>ADDITIONAL THREAD</td><td>D 408</td><td>240</td><td>144</td><td>112</td></tr><tr><td>5/8-1 1/8</td><td></td><td></td><td></td><td></td></tr><tr><td>FIRST MOVE</td><td>E 33</td><td>38</td><td>46</td><td>54</td></tr><tr><td>ADDITIONAL MOVE</td><td>F 40</td><td>50</td><td>68</td><td>85</td></tr><tr><td>FIRST THREAD</td><td>G 473</td><td>288</td><td>182</td><td>139</td></tr><tr><td>ADDITIONAL THREAD</td><td>H 480</td><td>300</td><td>204</td><td>170</td></tr></table>	DEGREES TURNED EACH MOVE					THREAD DIAMETER(INCHES)	30	60	120	180		A	B	C	D	UP TO 5/8					FIRST MOVE	A 30	33	37	41	ADDITIONAL MOVE	B 34	40	48	56	FIRST THREAD	C 404	233	133	97	ADDITIONAL THREAD	D 408	240	144	112	5/8-1 1/8					FIRST MOVE	E 33	38	46	54	ADDITIONAL MOVE	F 40	50	68	85	FIRST THREAD	G 473	288	182	139	ADDITIONAL THREAD	H 480	300	204	170
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FFH	U	MAA	BTLWRXX	TTLWRXX	TABLE	<p>RATCHET,USE TO TURN PART STARTS-WITH SOCKET ON PART TO BE TURNED INCLUDES-ALL MOTIONS NECESSARY TO MAKE FORWARD AND RETURN STROKES TO TURN PART AS INDICATED ENDS-WITH SOCKET ON PART CONDITIONS-APPLICABLE TO MOVE TURN MOTIONS WITH UP TO 2.5 POUNDS EFFECTIVE NET WEIGHT RESISTANCE(ENW)AND TO WRIST TURN MOTIONS WITH UP TO 2.0 POUNDS ENW.DOES NOT INCLUDE TIME FOR ENGAGE AND DISENGAGE RATCHET(SEE BTL-WR-01)</p> <table><tr><th colspan="5">DEGREES TURNED EACH MOVE</th></tr><tr><th>SIZE OF RATCHET AND TYPE OF MOTION</th><th>30</th><th>60</th><th>120</th><th>180</th></tr><tr><th></th><th>A</th><th>B</th><th>C</th><th>D</th></tr><tr><td>MOVE MOTION</td><td></td><td></td><td></td><td></td></tr><tr><td>1/4-3/8 INCH DRIVE</td><td></td><td></td><td></td><td></td></tr><tr><td>PER MOVE</td><td>A 10</td><td>15</td><td>21</td><td>29</td></tr><tr><td>PER THREAD</td><td>B 118</td><td>88</td><td>63</td><td>58</td></tr><tr><td>1/2 INCH DRIVE</td><td></td><td></td><td></td><td></td></tr><tr><td>PER MOVE</td><td>C 12</td><td>18</td><td>30</td><td>42</td></tr><tr><td>PER THREAD</td><td>D 146</td><td>107</td><td>91</td><td>83</td></tr><tr><td>WRIST TURN MOTION</td><td></td><td></td><td></td><td></td></tr><tr><td>PER TURN</td><td>E 6</td><td>8</td><td>14</td><td>19</td></tr><tr><td>PER THREAD</td><td>F 67</td><td>49</td><td>41</td><td>38</td></tr></table>	DEGREES TURNED EACH MOVE					SIZE OF RATCHET AND TYPE OF MOTION	30	60	120	180		A	B	C	D	MOVE MOTION					1/4-3/8 INCH DRIVE					PER MOVE	A 10	15	21	29	PER THREAD	B 118	88	63	58	1/2 INCH DRIVE					PER MOVE	C 12	18	30	42	PER THREAD	D 146	107	91	83	WRIST TURN MOTION					PER TURN	E 6	8	14	19	PER THREAD	F 67	49	41	38
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DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION			
OFF	U	MAA	KTFXXXX	STLFIXX		10-15 THREADS			
						UNRESTRICTED	SELF LOCKING	OBSTRUCTED	SELF LOCKING
						PLAIN E	F	PLAIN G	H
						ALLEN WRENCH			
						FIRST BOLT A	667	2253	
						ADDITIONAL B	629	2215	
						BOX OR OPEN END, BREAKOVER, ADJUSTABLE WR. (5/8 INCH THREAD DIA.)			
						FIRST BOLT C	375	2731	646
						ADDITIONAL D	337	2693	608
						BOLT AND NUT (USE BACKUP TOOL)			
						FIRST E	542	2898	
						ADDITIONAL F	466	2822	
						NUT & WASHER ON STUD			
						FIRST G	471	2827	1536
						ADDITIONAL H	433	2789	6606
						RATCHET WR. FIRST BOLT J			
						ADDITIONAL K	321	2041	
						BOLT AND NUT (USE BACKUP TOOL)			
						FIRST L	526	2246	
						ADDITIONAL M	450	2170	
						SCREWDRIVER/ NUTDRIVER FIRST BOLT N			
						ADDITIONAL P	472		
						BOLT AND NUT (USE BACKUP TOOL)			
						FIRST Q	652	1567	
						ADDITIONAL R	576	1491	
						BOLT, WASHER, AND NUT (USE BACKUP TOOL)			
						FIRST S	725	1640	975
						ADDITIONAL T	649	1564	1909



DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA OCCUP- QUALITY SOURCE DWMSTOP TMU
SOURCE ATION CODE ELEMENT VALUE

OPERATION/ELEMENT DESCRIPTION

OFF U MAA KTFXXXX STLFRXX

10-15 THREADS (CONT'D)
UNRESTRICTED OBSTRUCTED

PLAIN SELF PLAIN SELF
E LOCKING F G LOCKING H

BOX OR OPEN
END, BREAKOVER,
ADJUSTABLE WR.
(TO 5/8 INCH
THREAD DIA.)

FIRST BOLT	C	350	2516	621	5691
ADDITIONAL	D	312	2478	583	5653

BOLT AND NUT
(USE BACKUP
TOOL)

FIRST	E	462	2628
ADDITIONAL	F	386	2552

RATCHET WR.

FIRST BOLT	G	334	2058
ADDITIONAL	H	296	2020

BOLT AND NUT
(USE BACKUP
TOOL)

FIRST	J	446	2170
ADDITIONAL	K	370	2094

SCREWDRIIVER/
NUTDRIVER

FIRST BOLT	L	428
ADDITIONAL	M	385

BOLT AND NUT
(USE BACKUP
TOOL)

FIRST	N	533	1478
ADDITIONAL	P	457	1402

FFE U MAA KTFTQXX STLFTXX VARIABLE

FASTENER (THREADED), TORQUE WITH SNAP TYPE
TORQUE WRENCH

STARTS-WITH GET TORQUE WRENCH

INCLUDES-ALL MOTIONS NECESSARY TO SET TO

CORRECT TORQUE READING, GET SOCKET FROM OPEN

BOX, ATTACH SOCKET TO TORQUE WRENCH, TORQUE

FASTENER, REMOVE SOCKET, PLACE IN BOX, AND RETURN

TORQUE SETTING TO ZERO

ENDS-WITH ASIDE TORQUE WRENCH

CONDITIONS-WRENCH HANDLE-7-12 INCHES,

RESISTANCE TO TURN-TO 17.5 POUNDS ENW, THREAD

DIAMETER-TO 5/16 INCH

361

CASE 01 SET UP WRENCH AND TORQUE FIRST OR

SINGLE FASTENER

77

02 TORQUE ADDITIONAL FASTENER (SAME

SOCKET, SAME TORQUE SETTING)

FFD U MAA KTLTXX STLHTXX VARIABLE

HOLE, TAP

STARTS-WITH REACH TO GET PIN VISE

INCLUDES-ALL THE MOTIONS NECESSARY TO GET PIN

VISE, INSTALL TAP IN PIN VISE, PLACE TAP TO WORK

AND TAP ONE THREAD, CLEAR THREADS, REMOVE TOOL

FROM HOLE, REMOVE TAP FROM PIN VISE AND ASIDE

VISE AND TAP

ENDS-WITH VISE AND TAP ASIDE

CONDITIONS-DOES NOT INCLUDE LUBRICATION, UP TO

10 POUNDS RESISTANCE TO TURNS

625

CASE 01 TAP FIRST THREADED, FIRST HOLE

283

02 TAP FIRST THREAD, EACH ADDITIONAL HOLE

TO NINE INCHES FROM PRIOR HOLE

130

03 TAP EACH ADDITIONAL THREAD

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	OWNSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
FFE	U	MAA	GMCNPPX	STLPPXX	VARIABLE	<p>PUMP(PRESSURE),PUMP STARTS-WITH REACH TO PUMP HANDLE INCLUDES-ALL THE MOTIONS NECESSARY TO GET PUMP HANDLE AND INSERT IN PUMP(CASE 01)OR GRASP HANDLE IN PUMP(CASE 02)AND MOVE HANDLE UP AND DOWN(PUMPING MOTIONS)TO PUMP UP PRESSURE ENDS-WITH REMOVE AND ASIDE HANDLE(CASE 01)OR WITH RELEASE HANDLE (CASE 02)</p> <p>119 CASE 01 FIRST STROKE,GET,INSERT,ASIDE HANDLE; RESISTANCE BOTH WAYS</p> <p>51 02 FIRST STROKE,HANDLE IN PUMP,RESISTANCE ONE WAY</p> <p>42 03 EACH ADDITIONAL STROKE,RESISTANCE BOTH WAYS</p> <p>34 04 EACH ADDITIONAL STROKE,RESISTANCE ONE WAY ONLY</p>
OND	U	MAO	L81-K13	STLRA01	572	<p>REAMER,ASSEMBLE,POSITION,DISASSEMBLE STARTS-WITH REACH TO GET HANDLE INCLUDES-ALL THE MOTIONS NECESSARY TO GET HANDLE,GET REAMER,INSTALL REAMER IN HANDLE, LUBRICATE REAMER,BLOW CHIPS FROM HOLE,POSITION REAMER TO HOLE,DISENGAGE REAMER FROM HOLE, REMOVE REAMER FROM HANDLE,ASIDE REAMER AND HANDLE ENDS-WITH ASIDE REAMER AND HANDLE</p>
FFE	U	MAA	RLGDBZX	STLRFXX	VARIABLE	<p>FITTING(IZERK),REMOVE STARTS-WITH REACH TO GET TOOL INCLUDES-ALL THE MOTIONS NECESSARY TO GET TOOL AND POSITION ON FITTING,LOOSEN AND RUN OUT FITTING,ASIDE TOOL,REMOVE FITTING AND ASIDE TO TRASH ENDS-WITH FITTING IN TRASH CONDITIONS-RUN OUT 5 TO 10 THREADS</p> <p>874 CASE 01 STRAIGHT FITTING,RATCHET WRENCH,HEAVY RESISTANCE,UNOBSTRUCTED,120 DEGREE TURNS</p> <p>1111 02 ANGULAR FITTING,BOX,OPEN END,BREAKOVER OR ADJUSTABLE WRENCH,UNOBSTRUCTED, HEAVY RESISTANCE,THREAD DIAMETER UP TO AND INCLUDING 5/8 INCH</p>
NF	U	MAF	1148	BTPMP01	54	<p>WRENCH(IMPACT),POSITION TO BOLT OR NUT STARTS-WITH MOVE WRENCH TO BOLT OR NUT INCLUDES-ALL THE MOTIONS NECESSARY TO POSITION AN IMPACT WRENCH TO RUN DOWN A BOLT OR NUT ENDS-WITH WRENCH IN HAND READY TO RUN DOWN BOLT OR NUT CONDITION-WRENCH WEIGHING TO 10 POUNDS</p>
FFH	U	MAA	BTLPXX	BTPWTXX	VARIABLE	<p>WRENCH,TURN PART(POWER WRENCH,FREE RUNNING) STARTS-WITH MOVE WRENCH TO PART INCLUDES-ALL MOTIONS NECESSARY TO MOVE WRENCH TO PART,ATTACH WRENCH TO PART,AND DISENGAGE FROM PART ENDS-WITH WRENCH IN HAND,REMOVED FROM PART</p> <p>30 CASE 02 MOVE WRENCH 1-3 INCHES BETWEEN PARTS</p> <p>35 06 MOVE WRENCH 3-9 INCHES BETWEEN PARTS</p> <p>39 12 MOVE WRENCH 9-15 INCHES BETWEEN PARTS</p> <p>43 18 MOVE WRENCH 15-21 INCHES BETWEEN PARTS</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
DL	U	NAL	MTPDPXX	MTPDPXX VARIABLE	133 83	<p>DRILL, POSITION FOR DRILLING, HAND HELD PORTABLE POWER DRILL</p> <p>STARTS-WITH REACH TO DRILL</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO GET DRILL, POSITION TO MARK OR PILOT HOLE, APPLY PRESSURE TO HOLD DRILL, ACTUATE TRIGGER-TYPE SWITCH, RELEASE SWITCH, REMOVE DRILL FROM HOLE, AND ASIDE DRILL</p> <p>ENDS-WITH RELEASE DRILL</p> <p>CONDITIONS-DRILL WEIGHS TO 10 POUNDS. DOES NOT INCLUDE DRILLING PROCESS TIME. APPLICABLE TO PLACING DRILL IN UNOBSTRUCTED LOCATION.</p> <p>CASE 01 POSITION TO DRILL FIRST OR SINGLE HOLE</p> <p>02 POSITION TO DRILL EACH ADDITIONAL HOLE (TO 12 INCHES BETWEEN HOLES)</p>
FFD	U	MAA	TTFITXX	MTPFIXX VARIABLE	83 108 133	<p>FASTENER (THREADED), INSTALL WITH POWER TOOL</p> <p>STARTS-WITH FASTENER AND POWER TOOL IN HAND</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO START FASTENER WITH HAND AND RUN DOWN AND TIGHTEN WITH POWER TOOL</p> <p>ENDS-WITH DISENGAGE TOOL</p> <p>CASE 01 TO FIVE THREADS</p> <p>02 5-10 THREADS</p> <p>03 10-15 THREADS</p>
FFD	U	MAA	TTFRYXX	MTPFRXX VARIABLE	86 111 136	<p>FASTENER (THREADED), REMOVE WITH POWER TOOL</p> <p>STARTS-WITH ENGAGE TOOL WITH FASTENER</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO PROCESS AND RUN OFF FASTENER WITH POWER TOOL</p> <p>ENDS-WITH FASTENER ASIDE</p> <p>CASE 01 TO FIVE THREADS</p> <p>02 5-10 THREADS</p> <p>03 10-15 THREADS</p>
FFH	U	MAA	MTLPDXX	MTPHCXX VARIABLE	151 111	<p>HOLE, COUNTERSINK OR DEBURR, 1/16 INCH DEPTH AND TO 5/8 INCH DIAMETER, ALUMINUM MATERIAL</p> <p>STARTS-WITH REACH TO DRILL</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO GET DRILL, COUNTERSINK OR DEBURR ONE HOLE WITH PORTABLE ELECTRIC OR PNEUMATIC DRILL AND COUNTERSINK, AND PLACE DRILL ASIDE</p> <p>ENDS-WITH RELEASE OF DRILL</p> <p>CONDITIONS-DRILL WITH 1/4 INCH CAPACITY USED; TIME FOR INSTALLING COUNTERSINK IN DRILL NOT INCLUDED</p> <p>CASE 01 COUNTERSINK OR DEBURR FIRST OR SINGLE HOLE</p> <p>02 COUNTERSINK OR DEBURR ADDITIONAL HOLE</p>
NF	U	MAF	1140	MTPTD01	240	<p>TOOL (ELECTRIC POWER), DISCONNECT AND WIND CORD AROUND TOOL</p> <p>STARTS-WITH REACH TO PLUG</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO REMOVE PLUG FROM SOCKET, WIND CORD AROUND BODY OF TOOL AND SECURE CORD</p> <p>ENDS-WITH TOOL IN HAND</p> <p>CONDITIONS-SOCKET IS AT BENCH LEVEL</p>
NF	U	MAF	3163	MTPTP01	190	<p>TOOL, PLACE IN CHUCK AND TIGHTEN</p> <p>STARTS-WITH REACH TO CHUCK-TOOL IN HAND</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO OPEN OR CLOSE JAW, POSITION TOOL IN CHUCK, TIGHTEN JAWS BY HAND, TIGHTEN WITH CHUCK WRENCH AND ASIDE WRENCH</p> <p>ENDS-WITH ASIDE WRENCH</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	U	MAF	3162	MYPTK01	120	TOOL, REMOVE FROM CHUCK STARTS-WITH MOVE WRENCH TO CHUCK INCLUDES-ALL THE MOTIONS NECESSARY TO LOOSEN CHUCK WITH CHUCK WRENCH, TURN CHUCK BY HAND AND REMOVE AND ASIDE TOOL ENDS-WITH TOOL ASIDE
NF	U	MAF	1139	MTPTU01	216	TOOL(ELECTRIC POWER), UNWIND CORD AND CONNECT PLUG STARTS-WITH POWER TOOL IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO UNWIND CORD FROM AROUND BODY OF TOOL AND INSERT PLUG INTO A SOCKET ENDS-WITH RELEASE OF PLUG CONDITIONS-SOCKET IS AT BENCH LEVEL
FFF	U	MAA	GTFPAXX	STPFIXX VARIABLE		FASTENER(THREADED), INSTALL WITH POWER TOOL STARTS-WITH GET FASTENER INCLUDES-ALL MOTIONS NECESSARY TO START FASTENER, GET POWER TOOL, AND RUN FASTENER DOWN ON THREADS ENDS-WITH ASIDE TOOL CONDITION-NO TIME INCLUDED FOR ALIGNING HOLES. FASTENER INSTALLED TO 10 THREADS. DOES NOT INCLUDE TIME FOR SETUP OF POWER TOOL 342 CASE 01 INSTALL FIRST FASTENER AND NUT (INCLUDES GET, USE, ASIDE BACKUP TOOL) 194 02 INSTALL EACH ADDITIONAL FASTENER AND NUT (DOES NOT INCLUDE GET AND ASIDE TOOLS) 171 03 INSTALL FIRST BOLT TO NUT PLATE OR NUT TO STUD (REQUIRES NO BACKUP TOOL) 150 04 INSTALL EACH ADDITIONAL FASTENER TO NUT PLATE OR STUD (DOES NOT INCLUDE GET AND ASIDE TOOL)
FFE	U	MAA	GTFPDXX	STPFXX VARIABLE		FASTENER(THREADED), REMOVE WITH POWER TOOL STARTS-WITH GET POWER TOOL INCLUDES-ALL MOTIONS NECESSARY TO POSITION TOOL(S) TO FASTENER, RUN OUT FASTENER, REMOVE AND ASIDE FASTENER ENDS-WITH ASIDE TOOL(S) CONDITIONS-NO TIME INCLUDED FOR SETUP OF POWER TOOL 302 CASE 01 REMOVE FIRST BOLT AND NUT (INCLUDES GET, USE, AND ASIDE BACKUP TOOL) 200 02 REMOVE EACH ADDITIONAL BOLT AND NUT (DOES NOT INCLUDE GET AND ASIDE TOOLS) 179 03 REMOVE FIRST BOLT OR NUT FROM NUT PLATE OR STUD (NO BACKUP TOOL) 132 04 REMOVE EACH ADDITIONAL BOLT OR NUT FROM NUT PLATE OR STUD (DOES NOT INCLUDE GET AND ASIDE TOOL)
DFF	U	MAA	KTLDRAL	STPTI01	486	TOOL, INSTALL IN AND REMOVE FROM CHUCK OF PORTABLE DRILL MOTOR STARTS-WITH GET DRILL MOTOR INCLUDES-ALL MOTIONS NECESSARY TO GET TOOL, PLACE IN CHUCK, HAND TIGHTEN CHUCK, GET CHUCK KEY, TIGHTEN CHUCK, ASIDE CHUCK KEY, GET CHUCK KEY, LOOSEN CHUCK, REMOVE AND ASIDE TOOL, ASIDE CHUCK KEY, AND ASIDE DRILL MOTOR ENDS-WITH RELEASE OF DRILL MOTOR CONDITIONS-DRILL MOTOR WEIGHS TO 10 POUNDS

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
DL	U	HAL	MVSPPO1	MVSPPO1	256	PART, PLACE IN AND REMOVE FROM VISE STARTS-WITH REACH TO VISE HANDLE, PART IN OTHER HAND INCLUDES-ALL MOTIONS NECESSARY TO OPEN VISE BY CRANKING HANDLE TWO REVOLUTIONS, PLACE PART IN VISE, CLOSE AND TIGHTEN VISE, REACH TO PART AND VISE HANDLE, OPEN VISE TWO REVOLUTIONS OF HANDLE, REMOVE PART, AND CLOSE VISE TWO REVOLUTIONS ENDS-WITH RELEASE OF VISE HANDLE, PART IN HAND CONDITIONS-PART WEIGHS 2.5 POUNDS OR LESS, NO TIME INCLUDED TO OBTAIN OR ASIDE PART.
NAA	J	MAA	MVSTLXX	MVSQAXX	VARIABLE	VISE (QUICK ACTING), LOOSEN OR TIGHTEN
FFF	U	MAA	MVSRVXX	MVSRVXX	VARIABLE	VISE, ROTATE STARTS-WITH ONE HAND ON VISE AND OTHER HAND ON INDEX LOCK LEVER INCLUDES-ALL MOTIONS NECESSARY TO UNLOCK VISE, ROTATE, AND LOCK VISE ENDS-WITH ONE HAND ON VISE AND OTHER HAND ON LOCK LEVER CONDITION-LIMITED TO MOVES WITH 2.5 POUNDS OR LESS RESISTANCE CASE 01 ROTATE VISE UP TO 45 DEGREES 02 ROTATE VISE 45-135 DEGREES
					81 89	
NAA	U	MAA	MVSTLXX	MVSTLXX		VISE, TIGHTEN OR LOOSEN BY HAND STARTS-WITH HAND(S) ON VISE HANDLE INCLUDES-ALL MOTIONS NECESSARY TO TIGHTEN OR LOOSEN A BENCH VISE BY HAND ENDS-WITH HAND(S) ON VISE HANDLE CASE 01 SMALL VISE, UP TO 9-INCH HANDLE DIAMETER 02 MEDIUM VISE, 9-15 INCH HANDLE DIAMETER 03 LARGE VISE, 15-21 INCH HANDLE DIAMETER
					31 39 47	
NF	U	MAF	3966	MVSTSEX	VARIABLE	TRIPOD (WITH VISE), SET UP TO USE OR TAKE DOWN AFTER USE, EFFECTIVE NET WEIGHT TO 30 POUNDS STARTS-WITH VISE IN HAND AT WORKPLACE INCLUDES-ALL MOTIONS NECESSARY TO MOVE VISE INTO POSITION, BEND, OPEN TRIPOD LEGS, AND ARISE (CASE 01); OR BEND TO GET LEGS, CLOSE THREE LEGS, LOWER TRIPOD TO FLOOR, AND ARISE (CASE 02) ENDS-WITH BODY IN ERECT POSITION CASE 01 SET UP TRIPOD 02 TAKE DOWN TRIPOD
					313 278	
NF	U	MAF	4104	MVSVCO1	291	VISE (BENCH), OPEN AND CLOSE 1/4 INCH STARTS-WITH A REACH TO VISE HANDLE INCLUDES-ALL THE MOTIONS NECESSARY TO OPEN AND CLOSE A HAND OPERATED BENCH VISE ENDS-WITH RELEASE OF VISE HANDLE
AF	U	ORW	32814	MVSVTO1	173	VISE, TIGHTEN AND LOOSEN WITH WRENCH STARTS-WITH REACH TO WRENCH INCLUDES-ALL THE MOTIONS NECESSARY TO GET A WRENCH, POSITION ON TIGHTENING SCREW, TIGHTEN, AND LOOSEN AND ASIDE WRENCH ENDS-WITH RELEASE OF WRENCH ASIDE CONDITIONS-TIGHTEN WITH ONE 180 DEGREE TURN

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFH	U	MAA	BWHRFX	BWHRXX	VARIABLE	<p>CABLE,ROUTE THROUGH FRAME OPENING STARTS-WITH LEFT HAND ON CABLE AND RIGHT HAND HAS RELEASED PREVIOUS OBJECT INCLUDES-ALL MOTIONS NECESSARY TO PASS 12 INCHES OF CABLE THROUGH AS OPENING OF GROMMET HOLE IN AL ELECTRICAL CHASSIS OR FRAME ENDS-WITH LEFT HAND ON CABLE AND RIGHT HAND HAS RELEASED CABLE CONDITIONS-INCLUDES CABLE UP TO 5/8 INCHES IN DIAMETER AND WIRE GAGES FROM 12-26. THE CABLE HAS BEEN LACED AND THE LEADS PREPARED FOR PLACING THE CABLE THRU THE HOLE OR OPENING.</p> <p>63 CASE 01 LOOSE FIT-WHEN THE HOLE DIAMETER IS 1 INCH (2X1/2) LARGER THAN THE CABLE</p> <p>69 02 CLOSE FIT-WHEN THE HOLE DIAMETER IS 1/2 INCH (2X1/4) LARGER THAN THE CABLE</p> <p>81 03 TIGHT FIT IS WHEN THE HOLE DIAMETER IS 1/8 INCH (2X1/16) LARGER THAN THE CABLE DIAMETER</p>
FFH	U	TUA	BWGH01	BWGH01	221	<p>GUN(SOLDER),HEAT TIP TO SOLDER TEMPERATURE STARTS-WITH SOLDER GUN IN HAND,FINGER ON TRIGGER INCLUDES-ALL THE TIME NECESSARY TO DEPRESS TRIGGER AND HOLD TO HEAT TIP TO SOLDER TEMPERATURE ENDS-WHEN TIP IS AT SOLDER TEMPERATURE CONDITIONS-ALL WELLER(AND SIMILAR)SOLDER GUNS ALL WATTAGES</p>
FFH	U	MAA	BWH001	BWH001	20	<p>HEAT SINK,OPEN AND CLOSE STARTS-WITH FINGERS ON HEAT SINK,PREPARATORY TO OPENING INCLUDES-ALL THE MOTIONS NECESSARY TO OPEN AND CLOSE HEAT SINK ENDS-WITH THE CLOSING OF THE HEAT SINK</p>
FFH	U	MAA	BWHS01	BWHS01	49	<p>INSULATION,STRIP FROM WIRE TO ONE INCH STARTS-WITH STRIPPERS ON WIRE AND READY FOR STRIPPING ELEMENT INCLUDES-ALL MOTIONS NECESSARY TO STRIP WIRE ENDS-WHEN THE STRIPPER LEAVES THE WIRE AND READY FOR NEXT MOTION CONDITIONS-HAND OPERATED STRIPPER,WIRE DIAMETER IS SET PROPERLY AND NEEDS NO ADJUST- MENT,WIRE 12-26 GAGE SINGLE CONDUCTOR OR STRANDED,NON SHIELDED,PLASTIC OR FIBER INSULATION</p>
FFH	U	MAA	BWHTCX	BWHTXX	VARIABLE	<p>IRON(SOLDERING),TIN STARTS-WITH SOLDER IN POSITION FOR FIRST SOLDER APPLICATION INCLUDES-ALL MOTION NECESSARY TO TIN SOLDERING IRON TIP ENDS-WITH SOLDERING IRON HELD IN ONE HAND AND SOLDER IN OTHER HAND,CLOSE TO IRON TIP CONDITIONS-37.5 TO 47.5 WATT IRON WITH 1/8 TO 3/16 INCH TIP,60 TIN/40 LEAD RESIN CORE SOLDER. MOVES REQUIRED TO APPLY SOLDER LIMIT OUT SOLDER MELT PROCESS TIME. APPLICABLE TO TINNING WIRE LEAD.</p> <p>6 CASE 01 TIN SOLDERING IRON TIP BEFORE SOLDERING</p> <p>51 02 TIN SOLDERING IRON AFTER CLEANING</p> <p>49 03 TIN WIRE LEAD END WITH SOLDERING IRON</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTD ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFH	U	MAA	BWHLTX	BWHLTOI	VARIABLE	LACE, TIE CLOVE HITCH AND OVERHAND KNOT STARTS-WITH CABLE IN LEFT HAND, AND CORD HELD IN POSITION AT CABLE INCLUDES-ALL THE MOTIONS NECESSARY TO TIE A KNOT TO START OR END LACING OF CABLE, OR TO TIE SINGLE KNOT ON CABLE ENDS-WITH KNOT COMPLETED AND CORD IN HANDS CONDITIONS-WAXED LACING CORD CASE 01 TIE CLOVE HITCH AND OVERHAND KNOT 02 TIE CLOVE HITCH AND OVERHAND KNOT IN CHASSIS
					208 458	
FFH	U	MAA	BWHLUI	BWHLUOI	30	LACING(CORD), UNWIND FROM SPOOL PER FOOT STARTS-WITH SPOOL IN RIGHT HAND AND LEFT HAND REACH TO CORD WITH LEFT HAND INCLUDES-ALL THE MOTIONS NECESSARY TO UNWIND EACH FOOT OF LACING CORD FROM SPOOL ENDS-WITH RIGHT HAND HOLDING SPOOL AND LEFT HAND HAS RELEASED CORD.
FFH	U	MAA	BWHRPX	BWHRWXX	VARIABLE	WIRE, ROUTE PAST POST, PIN OR OBSTRUCTION STARTS-WITH HAND ON WIRE, AT THE POST, PIN, OR OBSTRUCTION INCLUDES-ALL MOTIONS NECESSARY TO ROUTE WIRE TO 90 DEGREES ARC OR ANGLE AROUND OBSTRUCTION ENDS-AT COMPLETION OF ROUTE WITH HANDS READY TO ROUTE CONDITIONS-WIRE 12-26 GAGE NON SHIELDED SINGLE CONDUCTOR STRANDED WITH PLASTIC OR BRAID INSULATION CASE 01 ROUTE WIRE AROUND POST, PIN, OR OBSTRUCTION, 2 SIDES WITH HANDS 02 ROUTE WIRE AROUND POST, PIN, OR OBSTRUCTION, 3 SIDES WITH HANDS
					20 61	
AE	U	MAA	FPLSMXX	BWHSWXX	VARIABLE	WIRE, STRAIGHTEN WITH PLIERS STARTS-WITH WIRE AND PLIERS IN HAND INCLUDES-ALL MOTIONS NECESSARY TO GRIP WIRE AND STRAIGHTEN WIRE WITH PLIERS ENDS-WITH PLIERS IN HAND OVER WIRE CASE 01 STRAIGHTEN WIRE, FIRST APPLICATION 02 STRAIGHTEN WIRE, EACH ADDITIONAL APPLICATION
					36 22	
FFH	U	MAA	BWHTLXX	BWHTLXX	VARIABLE	LEAD, TWIST ON TERMINAL STARTS-WITH PLIERS IN POSITION TO GRASP LEAD INCLUDES-ALL MOTIONS REQUIRED TO TWIST AND CRIMP ONE LEAD TO A TERMINAL IN PREPARATION FOR SOLDERING LEAD TO TERMINAL ENDS-WITH LEFT HAND HOLDING WIRE OR COMPONENT AND RIGHT HAND READY TO RELEASE THE LEAD CONDITIONS-TERMINALS INCLUDE POST, PIN AND EYELET TYPES, LEAD PREVIOUSLY BENT TO FORM HOOK AND POSITION ON TERMINAL. USE LONG NOSE PLIERS CASE 01 TWIST WIRE LEAD ON TERMINAL POST, PIN OR EYELET 02 CRIMP COMPONENT ON TERMINAL
					120 109	
FFH	U	MAA	BWMBPOZ	BWMBRXX	VARIABLE	WIRE, BEND WITH PLIERS STARTS-WITH PLIERS POSITIONED AT POINT ON WIRE INCLUDES-ALL MOTIONS REQUIRED TO BEND WIRE WITH PLIERS ENDS-WITH LEFT HAND HOLDING WIRE, AND RIGHT HAND READY TO MOVE PLIERS AWAY FROM BENT WIRE CONDITIONS-WIRE 12-26 GAGE INSULATED OR BARE CASE 01 BEND WIRE UP TO 90 DEGREES WITH PLIERS 02 BEND WIRE 90-180 DEGREES WITH PLIERS
					28 32	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
AE	U	MAW	FPLBW01	BWMW803	46	WIRE, BEND TO FORM LOOP USING PLIERS STARTS-WITH WIRE IN HAND AND PLIERS POSITIONED ON WIRE INCLUDES-ALL MOTIONS NECESSARY TO BEND WIRE TO PARTIALLY FORM LOOP, REPOSITION PLIERS ON WIRE, AND BEND TO COMPLETE LOOP ENDS-WITH PLIERS IN HAND ENDS-WITH PLIERS IN HAND CONDITION-APPLICABLE TO 14 GAGE STEEL WIRE OR SIMILAR
FFH	U	NAA	BWHBHO1	BWHW804	18	WIRE, BEND UP TO 120 DEGREES WITH HANDS STARTS-WITH HANDS ON WIRE INCLUDES-ALL THE MOTIONS NECESSARY TO BEND WIRE TO 120 DEGREES WITH FINGERS ENDS-AT COMPLETION OF BEND WITH BOTH HANDS ON WIRE READY FOR NEXT MOTION SEQUENCE CONDITION-WIRE 12 TO 26 GAGE, INSULATED OR BARE
FFH	U	NAA	BWHDC01	BWHWD01	99	WIRE, DRESS INTO AN INSIDE CORNER STARTS-AFTER GRASP BY LEFT HAND AND PLIERS IN RIGHT HAND READY FOR DRESS WIRE ELEMENT INCLUDES-ALL MOTIONS NECESSARY TO BEND A STRAIGHT WIRE AND POSITION WIRE INTO CORNER ENDS-WIRE IS POSITIONED IN CORNER WITH LEFT HAND CONDITIONS-THIS COVERS ALL SOLID OR STRANDED COPPER WIRE WITH FABRIC OR PLASTIC COVERING. WIRE GAGE 12 TO 26 INCLUDED. THIS INCLUDES GENERAL CASES WHERE THE WIRE IS CONNECTED AT ONE OR BOTH ENDS AT TIME OF WIRE DRESSING AND OUTSIDE CORNER WHEN WIRE CONNECTED ON ONE END
FFH	U	NAA	BWHRC01	BWHWR01	20	WIRE, ROUTE IN CHANNEL OR AGAINST FRAME STARTS-WITH BOTH HANDS ON WIRES INCLUDES-ALL MOTIONS REQUIRED TO PRESS SEVERAL WIRES INTO PLACE ALONG FRAME OR CHANNEL, MOVE WIRES TO 6 INCHES ENDS-WITH WIRE IN PLACE AND HANDS READY TO MOVE TO NEXT LENGTH OF WIRE, OR START NEXT MOTION SEQUENCE CONDITIONS-WIRE, 12-26 GAGE, NON SHIELDED SINGLE CONDUCTOR OR STRANDED WITH PLASTIC OR BRAID INSULATION
FFH	U	NAA	BWMSHXX	BWMSXX	VARIABLE	WIRE, STRAIGHTEN BY HAND STARTS-AFTER WIRE HAS BEEN GRASPED INCLUDES-ALL MOTIONS REQUIRED TO STRAIGHTEN WIRE BY HAND ENDS-WITH HAND NEAR END OF WIRE CONDITIONS-WIRE, 12-26 GAGE, NON SHIELDED SINGLE CONDUCTOR OR STRANDED WITH PLASTIC OR BRAID INSULATION CASE 01 STRAIGHTEN WIRE 3 INCHES LONG 02 STRAIGHTEN WIRE 3-9 INCHES LONG 03 STRAIGHTEN WIRE 9-15 INCHES LONG

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FF	U	MAA	BWHTBXX	BWHTXX	VARIABLE	WIRES, TWIST TO ROUTE THRU OPENING STARTS-WITH LEFT HAND HOLDING CABLE AND REACH TO CABLE WITH RIGHT HAND INCLUDES-ALL MOTIONS NECESSARY TO TWIST WIRE IN PREPARATION TO PLACING CABLE INTO OPENING ENDS-WITH LEFT HAND ON CABLE AND RIGHT HAND READY FOR NEXT MOTION CONDITIONS-WIRE 12-26 GAGE, NON SHIELDED SINGLE CONDUCTOR OR STRANDED WITH PLASTIC OR BRAID INSULATION. INCLUDED ARE LEADS FROM 1-4 1/2 INCHES IN LENGTH CASE 01 TWIST BUNDLE 2-10 WIRES TO ROUTE THRU OPENING 62 86 02 TWIST BUNDLE 11-30 WIRES TO ROUTE THRU OPENING
FFH	U	MAA	BWHTS01	BWHT03	32	WIRE, TWIST STRAND OF LEAD STARTS-WITH REGRASP OF WIRE WITH RIGHT HAND INCLUDES-ALL MOTIONS NECESSARY TO TWIST STRANDED WIRE FOR TINNING OR INSULATION ENDS-WITH RELEASE OF WIRE CONDITIONS-STRANDED WIRE, 12 TO 26 GAGE, NON-SHIELDED SINGLE CONDUCTOR WITH PLASTIC OR BRAID INSULATION
FF	U	MAA	BWHTB11	BWHTU01	54	WIRES-UNTWIST AFTER ROUTE THRU OPENING STARTS-WITH LEFT HAND HOLDING CABLE AND REACH TO CABLE WITH RIGHT HAND INCLUDES-ALL THE MOTIONS NECESSARY TO UNTWIST THE LEADS OF A CABLE WHEN THEY HAVE BEEN PREVIOUSLY TWISTED ENDS-WITH LEFT HAND HOLDING CABLE AND RIGHT HAND DISENGAGED FROM LEADS CONDITION-WIRE GAGE 12-26
FFH	U	MAA	MWMLCXX	MWMLXX	VARIABLE	CABLE, LACE WITH KNOT STARTS-WITH GET CORD INCLUDES-ALL THE MOTIONS REQUIRED TO TIE CLOVE HITCH AND OVERHAND KNOT AND CUT EXCESS CORD AFTER TYING ENDS-WITH ASIDE DIAGONAL PLIERS CASE 01 TIE CLOVE HITCH AND OVERHAND KNOT IN OPEN AREA 305 555 02 TIE CLOVE HITCH AND OVERHAND KNOT IN CHASSIS
FFH	U	MAA	MWMMH11	MWMMU01	320	HARNESS, UNWRAP VINYL TAPE FROM 1-3 INCHES OF STARTS-WITH GET CUTTERS INCLUDES-ALL MOTIONS REQUIRED TO GET, PLACE AND ASIDE CUTTERS, CUT, REMOVE AND ASIDE VINYL TAPE ENDS-WITH RELEASE OF CUTTERS
FFH	U	MAA	MWMMH02	MWMMH01	2856	HARNESS, WRAP 1-3 INCHES OF HARNESS WITH 1/2 INCH VINYL TAPE-RESTRICTED STARTS-WITH GET ROLL OF VINYL TAPE INCLUDES-MOTIONS TO GET AND ASIDE CUTTER, ROLL OF TAPE, CUT TAPE, WRAP 1-3 INCHES OF HARNESS, ATTACH CLIP BEFORE TYING OR LACING AND REMOVE CLIP ENDS-WITH RELEASE OF CLIP CONDITIONS-1/2 INCH VINYL TAPE. DOES NOT INCLUDE LACING OF HARNESS. HARNESS CLOSE TO CHASSIS, RESTRICTED, REQUIRES THE AID OF PLIERS

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FF	U	MAA	MMHTCXX	MMHTXX	VARIABLE	IRON(SOLDERING),TIN BEFORE SOLDERING OR AFTER CLEANING STARTS-WITH IRON AND SOLDER IN HANDS INCLUDES-ALL MOTIONS REQUIRED TO APPLY SUFFICIENT SOLDER TO IRON TIP TO INSURE GOOD CONTACT WHILE SOLDERING ENDS-WITH SOLDER NEAR TIP OF SOLDERING IRON CONDITIONS-37.5 TO 47.5 WATT IRON WITH 1/8 TO 3/16 INCH TIP-SOLDER 60 TIN/40 LEAD, CASE 01 TIN SOLDERING IRON BEFORE SOLDERING 02 TIN SOLDERING IRON AFTER CLEANING 37 78
FFH	U	MAA	MMHCL01	MMHLC01	43	LEAD,CHOOSE FROM WIRE BUNDLE STARTS-WITH BUNDLE OF WIRES IN HAND INCLUDES-ALL THE MOTIONS REQUIRED TO SELECT ONE LEAD FROM A BUNDLE OF WIRES ENDS-WITH WIRE ASIDE AND HAND ON WIRE READY FOR NEXT MOTION SEQUENCE CONDITIONS-12 TO 26 GAGE WIRE NON-SHIELDED
FFH	U	MAA	MMHDL01	MMHLD01	198	LEAD,DRESS WITH PLIERS STARTS-WITH LEFT HAND NEAR WIRE AND RIGHT HAND HOLDING PLIERS NEAR TERMINAL INCLUDES-ALL THE MOTIONS NECESSARY TO DRESS A WIRE END OR COMPONENT LEAD AT TERMINAL ENDS-WITH RELEASE OF PLIERS AND LEFT HAND HOLDING COMPONENT OR WIRE
FFH	U	MAA	MMHLL01	MMHLM01	144	LEAD(COMPONENT),MEASURE AND CUT TWO ENDS TO LENGTH STARTS-WITH GET LEAD INCLUDES-ALL THE MOTIONS REQUIRED TO MEASURE AND CUT TO LENGTH BOTH LEADS OF A COMPONENT ENDS-WITH COMPONENT IN LEFT HAND AND CUTTERS IN RIGHT HAND NEAR COMPONENT CONDITION-COMPONENTS SUCH AS DIODES AND RESISTORS
FFH	U	MAA	MMHLL02	MMHLM02	165	LEAD,MEASURE AND CUT TO LENGTH STARTS-WITH REACH TO GET LEAD INCLUDES-ALL THE MOTIONS REQUIRED TO MEASURE AND CUT LEAD TO LENGTH ENDS-WITH LEAD CUT AND TOOLS ASIDE CONDITIONS-STANDARD APPLIES ONLY TO NEW INSTALLATIONS OR REROUTING OF EXISTING LEADS TO NEW LOCATIONS
FFH	U	MAA	MMHSH01	MMHLS01	182	LEAD(COMPONENT),STRAIGHTEN WITH HANDS STARTS-WITH GET COMPONENT INCLUDES-ALL THE MOTIONS NECESSARY TO GET COMPONENT FROM WORK BENCH,ORIENT,CHECK FOR INSULATION AND STRAIGHTEN LEADS BY HAND ENDS-WITH ONE HAND HOLDING COMPONENT AND OTHER HAND NEAR SECOND LEAD CONDITIONS-COMPONENTS SUCH AS DIODES AND RESISTORS
FFH	U	MAA	MMHTS01	MMHLT01	51	LEAD,TWIST STRANDED WIRE BY HAND STARTS-WITH REACH TO WIRE END WITH ONE HAND, OTHER HAND HOLDING WIRE INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP AND TWIST STRANDED WIRE TWO REVOLUTIONS BY HAND ENDS-WITH RELEASE WIRE CONDITIONS-STRANDED WIRE,12-26 GAGE
FFH	U	MAA	MMHLU11	MMHLU01	85	LACING CURD,UNWIND ONE FOOT FROM SPOOL STARTS-WITH REACH TO SPOOL INCLUDES-ALL THE MOTIONS NECESSARY TO GET SPOOL AND UNWIND ONE FOOT OF CORD ENDS-WITH RELEASE OF SPOOL

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTD ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFH	U	MAA	MWHAMD1	MWHMA01	418	MARKER(E-Z CODE), APPLY STARTS-WITH REACH TO GET E-Z CODE TAPE CARD INCLUDES-ALL THE MOTIONS REQUIRED TO GET AND ASIDE CARD OF E-Z CODE, GET USE AND ASIDE TOOLS, APPLY E-Z CODE TO ITEM ENDS-WITH LEFT HAND ON CODED ITEM AND FINGERS OF RIGHT HAND ON E-Z CODE TAPE CONDITIONS-FABRIC RACKED TABBED AND DECAL TYPE NON-TABBED E-Z CODE TAPE MARKERS
FFH	U	MAA	MWHAI01	MWHSA01	202	SPAGHETTI, APPLY-MEASURE, CUT AND INSTALL STARTS-WITH GET INSULATION SPAGHETTI FROM BENCH WITH LEFT HAND INCLUDES-ALL THE MOTIONS NECESSARY TO GET, PLACE, MEASURE AND CUT INSULATION SPAGHETTI WITH DIAGONAL CUTTERS, PLACE ON WIRE AND SLIDE DOWN AFTER CONNECTION ENDS-WITH INSULATION MOVE TO CONNECTION POINT CONDITIONS-INSULATION UP TO TWO INCHES IN LENGTH
FFH	U	MAA	MWHAI02	MWHSS01	22	SPAGHETTI, SLIDE STARTS-WITH REACH TO SPAGHETTI INCLUDES-ALL THE MOTIONS NECESSARY TO SLIDE SPAGHETTI UP OR DOWN WIRE ENDS-WITH SPAGHETTI MOVED FROM ONE TO THREE INCHES CONDITIONS-SPAGHETTI UP TO TWO INCHES IN LENGTH
FFH	U	MAA	MWHMTXX	MWHTM01	285	TERMINAL, MOUNT TO CHASIS STARTS-WITH REACH TO TERMINAL INCLUDES-ALL THE MOTIONS NECESSARY TO GET TERMINAL AND TOOL AND MOUNT TERMINAL ENDS-WITH TOOL TOUCHING TERMINAL PART CONDITION-APPLICABLE TO SNAP LOCK TERMINAL OR TERMINAL MOUNTED WITH SCREW
FFH	U	MAA	MWHRUX	MWHWRXX	VARIABLE	WIRE, ROUTE THROUGH WIRES STARTS-WITH LEFT HAND HOLDING WIRE NEAR WIRES THROUGH WHICH LEAD WILL BE THREADED INCLUDES-ALL MOTIONS REQUIRED TO GET, PLACE AND ASIDE TOOL AND ROUTE LEAD UNDER OR BETWEEN OBSTRUCTING WIRES ENDS-WITH WIRE ROUTED AND TOOL ASIDE CONDITIONS-WIRE, 12-16 GAGE 160 CASE 01 ROUTE WIRE THROUGH WIRES WITH TOOL 1ST OBSTRUCTION 124 02 ROUTE WIRE THROUGH WIRES WITH TOOL EACH ADDITIONAL OBSTRUCTION
FFH	U	MAA	MWHSMXX	MWHWSXX	VARIABLE	WIRE, STRIP END STARTS-WITH GET STRIPPER INCLUDES-ALL MOTIONS REQUIRED TO GET, PLACE AND ASIDE STRIPPER AND STRIP ONE WIRE END ENDS-WITH TOOL ASIDE CONDITIONS-WIRE, 12-16 GAGE, MANUAL STRIPPER 125 CASE 01 STRIP WIRE END-FIRST LEAD END 83 02 STRIP WIRE END-EACH ADDITIONAL LEAD END
FFH	U	TUA	MWHTCXX	MWHWT01	76	WIRE, TIN LEAD END STARTS-WITH IRON AND SOLDER IN HAND INCLUDES-ALL THE MOTIONS AND PROCESS TIME TO TIN A WIRE LEAD IN PREPARATION TO CONNECTING WIRE TO A TERMINAL ENDS-WITH SOLDER AND IRON TWO INCHES FROM LEAD WIRE

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	U	MAF	2649	MMMU01	35	WIRE (OR SOLDER), UNROLL FROM SPOOL, SIX INCH LENGTH STARTS-WITH REACH TO END OF WIRE ON SPOOL HELD IN HAND INCLUDES-ALL MOTIONS NECESSARY TO GET END OF WIRE AND UNROLL SIX INCHES ENDS-WITH RELEASE OF WIRE WITH ONE HAND AND THE SPOOL IN THE OTHER HAND
NAA	U	MAA	BWRLXX	BWRLXX VARIABLE		LETTER, WRITE, LONGHAND STARTS-(CASE 01) WITH WRITING INSTRUMENT IN CONTACT WITH WRITING SURFACE. (CASE 02) WITH WRITING INSTRUMENT WITHIN ONE INCH OF THE WRITING SURFACE INCLUDES-ALL MOTIONS NECESSARY TO WRITE ONE LETTER ENDS-WITH WRITING INSTRUMENT IN CONTACT WITH THE SURFACE 15 CASE 01 WRITE ONE LETTER, LONGHAND, LOWER CASE 23 02 WRITE ONE LETTER, LONG HAND, UPPER CASE
NAA	U	MAA	BWRLPXX	BWRLPXX VARIABLE		LETTER, PRINT, UPPER OR LOWER CASE STARTS WITH WRITING INSTRUMENT WITHIN ONE INCH OF WRITING SURFACE INCLUDES-ALL MOTIONS NECESSARY TO PRINT ONE LETTER ENDS-WITH WRITING INSTRUMENT IN CONTACT WITH SURFACE 18 CASE 01 PRINT ONE LETTER, LOWER CASE 23 02 PRINT ONE LETTER, UPPER CASE
NAA	U	MAA	BWRN001	BWRN001	8	INSTRUMENT (WRITING), MOVE TO NEXT WORD WHEN WRITING LONGHAND, LOWER CASE STARTS-WITH WRITING INSTRUMENT IN CONTACT WITH WRITING SURFACE AFTER FINISHING PREVIOUS WORD INCLUDES-MOVING INSTRUMENT LESS THAN ONE INCH AND GETTING IT INTO POSITION FOR WRITING NEXT WORD ENDS-WITH INSTRUMENT READY FOR WRITING NEXT WORD CONDITION-WHEN THE DISTANCE BETWEEN WORDS IS ONE INCH OR MORE A BASIC PLACE ELEMENT IS REQUIRED TO MOVE THE WRITING INSTRUMENT TO THE NEXT WORD
FFH	U	MAA	BWRN001	BWRN001	18	NUMBER, WRITE, PER DIGIT STARTS-WITH THE WRITING INSTRUMENT WITHIN ONE INCH OF THE WRITING SURFACE INCLUDES-FORMATION OF A DIGIT ENDS-WITH WRITING INSTRUMENT IN CONTACT WITH THE WRITING SURFACE
FFJ	U	MAA	BWRPSXX	BWRPAXX VARIABLE		PUNCTUATION, ANNOTATE STARTS-WITH WRITING IMPLEMENT WITHIN ONE INCH OF STARTING POINT INCLUDES-MOVE TO WRITING SURFACE AND FORMATION OF PUNCTUATION MARK ENDS-WITH WRITING IMPLEMENT IN HAND IN CONTACT WITH WRITING SURFACE CONDITIONS-NOT APPLICABLE TO PRECISE PRINTING USE ONLY WITH ORDINARY WRITING OR FREEMAN PRINTING 8 CASE 01 FORMATION OF A PERIOD OR DOT 10 02 FORMATION OF A COMMA, APOSTROPHE, LINE OR DASH 17 03 FORMATION OF A COLON, SEMI-COLON, OR EXCLAMATION POINT 19 04 FORMATION OF PARENTHESES, DITTO MARK, QUESTION MARK, OR SINGLE QUOTATION MARK 29 05 FORMATION OF AN ASTERISK

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUF	OPERATION/ELEMENT DESCRIPTION
FFH	U	MAA	BWRMSXX	BWRSWXX	VARIABLE	<p>SYMBOLS, WRITE STARTS-WITH WRITING IMPLEMENT IN HAND WITHIN ONE INCH OF STARTING POINT INCLUDES-MOVE TO WRITING SURFACE AND FORMATION OF SYMBOL ENDS-WITH WRITING IMPLEMENT IN HAND AND IN CONTACT WITH WRITING SURFACE CONDITIONS-NOT APPLICABLE TO PRECISE PRINTING ONLY WITH ORDINARY WRITING OR FREEHAND PRINTING</p> <p>17 CASE 01 FORMATION OF A CHECK MARK 19 02 FORMATION OF MULTIPLICATION, ADDITION, EQUAL SIGN OR AMPERSAND 25 03 FORMATION OF A DIVISION SIGN OR A SINGLE BRACKET 33 04 FORMATION OF A PERCENT, DOLLAR OR RADICAL SIGN 41 05 FORMATION OF A BRACE</p>
FFJ	U	MAA	MWRDAXX	MWRDXX	VARIABLE	<p>DATE(CALENDAR), WRITE STARTS-WITH WRITING INSTRUMENT WITHIN ONE INCH OF FIRST DIGIT OF DATE, MOVE TO WRITING SURFACE TO WRITE DATE INCLUDES-WRITING DATE ENDS-WITH WRITING INSTRUMENT IN HAND AND IN CONTACT WITH WRITING SURFACE AT THE COMPLETION OF THE WRITTEN DATE</p> <p>136 CASE 01 PRINT UPPER CASE ALPHAS FOR ABBREVIATED MONTH AND NUMERICS FOR DAY AND YEAR 122 02 WRITE LONGHAND ONE UPPER CASE AND TWO LOWER CASE ALPHAS FOR ABBREVIATED MONTH AND NUMERICS FOR DAY AND YEAR 110 03 WRITE USING ALL NUMERICS AND TWO DASHES OR OBLIQUES</p>
FFJ	U	MAL	MWRSLO1	MWRSWO1	224	<p>SIGNATURE, WRITE LONGHAND, FIRST NAME, MIDDLE INITIAL, AND LAST NAME STARTS-WITH WRITING INSTRUMENT IN HAND WITHIN ONE INCH OF FIRST LETTER OF SIGNATURE, MOVE TO WRITING SURFACE TO WRITE SIGNATURE INCLUDES-WRITING SIGNATURE ENDS-WITH WRITING INSTRUMENT IN HAND AND IN CONTACT WITH WRITING SURFACE AT THE COMPLETION OF THE WRITTEN SIGNATURE</p>
AE	U	MAW	SCCWXX	MWRWXX	VARIABLE	<p>WORDS, WRITE OR PRINT, SEQUENCE OF FIVE WORDS STARTS-WITH WRITING IMPLEMENT IN CONTACT WITH SURFACE READY TO WRITE INCLUDES-ALL MOTIONS NECESSARY TO WRITE OR PRINT A SEQUENCE OF FIVE WORDS INCLUDING PUNCTUATION ENDS-WITH WRITING IMPLEMENT IN CONTACT WITH WRITING SURFACE</p> <p>465 CASE 01 WRITE OR PRINT FIVE WORDS IN A SEQUENCE USING UPPER AND LOWER CASE 605 02 PRINT FIVE WORDS IN A SEQUENCE USING ALL UPPER CASE LETTERS</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWNSTOP ELEMENT	THU VALUE	OPERATION/ELEMENT DESCRIPTION																																																																	
FF	J	MAA	TWRNCXX	TWRNCXX	TABLE	<p>NUMBER, COPY FROM SOURCE DOCUMENT STARTS-WITH LOOK TO SOURCE DOCUMENT IN CLOSE PROXIMITY, WRITING INSTRUMENT IN HAND NEAR SECOND DOCUMENT INCLUDES-LOOKING TO AND FROM DOCUMENT, READING NUMBER, AND WRITING NUMBER ON SECOND DOCUMENT OR PAD ENDS-WITH WRITING INSTRUMENT IN CONTACT WITH SURFACE AT END OF NUMBER</p> <p>DISTANCE EYE TRAVEL (IN INCHES)</p> <table><tr><th>NUMBER(S) COPIED</th><th>5</th><th>10</th><th>15</th><th>20</th></tr><tr><td>1 A</td><td>40</td><td>50</td><td>60</td><td>70</td></tr><tr><td>2 B</td><td>63</td><td>73</td><td>83</td><td>93</td></tr><tr><td>3 C</td><td>86</td><td>96</td><td>106</td><td>116</td></tr><tr><td>4 D</td><td>109</td><td>119</td><td>129</td><td>139</td></tr><tr><td>5 E</td><td>132</td><td>142</td><td>152</td><td>162</td></tr><tr><td>6 F</td><td>182</td><td>200</td><td>219</td><td>238</td></tr><tr><td>7 G</td><td>207</td><td>225</td><td>244</td><td>263</td></tr><tr><td>8 H</td><td>232</td><td>250</td><td>269</td><td>288</td></tr><tr><td>9 J</td><td>257</td><td>275</td><td>294</td><td>313</td></tr><tr><td>10 K</td><td>282</td><td>300</td><td>319</td><td>338</td></tr><tr><td>11 L</td><td>307</td><td>325</td><td>344</td><td>363</td></tr><tr><td>12 M</td><td>332</td><td>350</td><td>369</td><td>388</td></tr></table>	NUMBER(S) COPIED	5	10	15	20	1 A	40	50	60	70	2 B	63	73	83	93	3 C	86	96	106	116	4 D	109	119	129	139	5 E	132	142	152	162	6 F	182	200	219	238	7 G	207	225	244	263	8 H	232	250	269	288	9 J	257	275	294	313	10 K	282	300	319	338	11 L	307	325	344	363	12 M	332	350	369	388
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